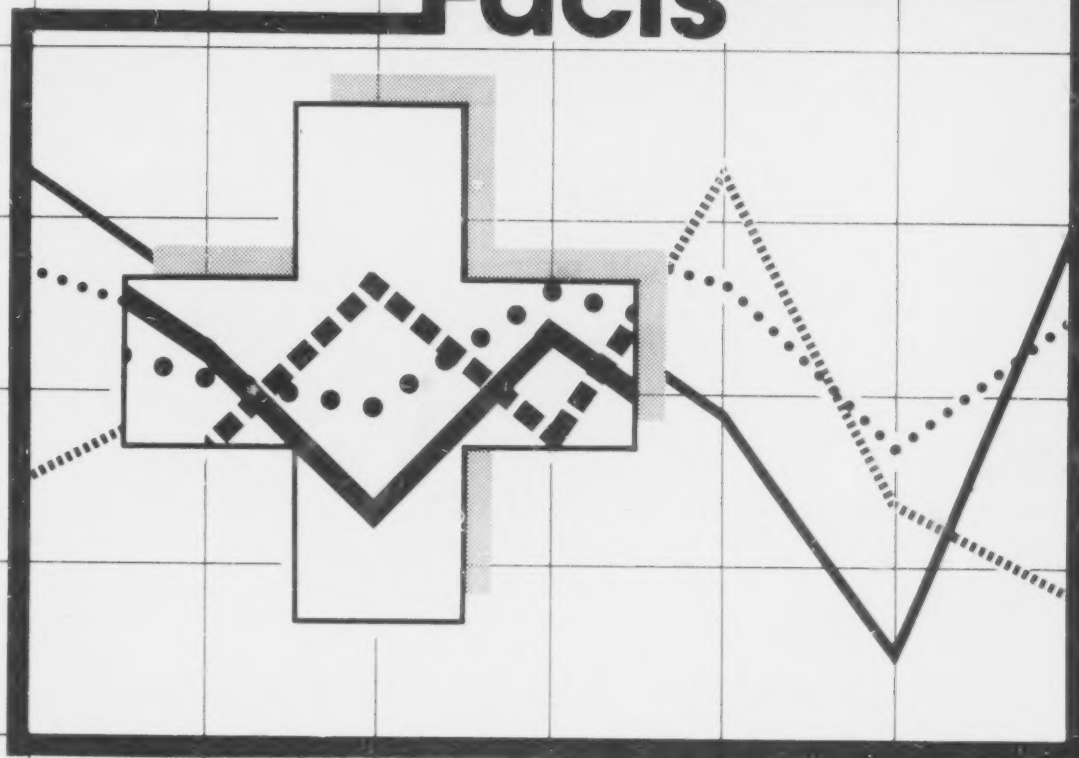


1984 Iowa Accident Facts



Iowa Department
of Transportation

Foreward

The format of the vehicle pages in the 1984 report emphasizes the number of **accidents** by vehicle type.

The 1984 summary again includes alcohol-related accident information (including trends, time of day, day of week, and detailed statistics on the driver, vehicle and environment for alcohol-related accidents); collisions by vehicle type; and accident information for each county by road system. In addition, the individual vehicle pages include seat belt usage information developed from the accident data.

Several items should be noted. Accident information concerning the Driver, Machine and Environment for each vehicle type is contained on facing pages. Percentages are based on known information; unknown cases are also noted.

Starting in 1979, Iowa fatality figures include all persons who died as a result of a traffic accident on public roads within 30 days of the accident. Previous traffic fatality figures included all persons who died within one year of the accident. The change was made to conform to nationwide standards for reporting highway fatalities.



Iowa Department
of Transportation

Motor Vehicle Division
Office of Driver Services
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Des Moines, Iowa 50319
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January 1986

Acknowledgement

The Iowa Department of Transportation wishes to express appreciation to all law enforcement agencies and officers for their work in accident investigation which made this report possible. All information concerning Iowa traffic accidents was taken from report forms provided by investigating officers and drivers involved in accidents.

We hope this information will be of value in analyzing the causes of traffic accidents in Iowa, and that it emphasizes the need for concerned, well-prepared drivers and a safe driving environment.

Prepared by
Office of Driver Safety & Improvement

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Glossary

Traffic accident: Iowa law requires motorists to report any accident which involves one or more vehicles and results in death, personal injury or property damage of at least \$500. The information in this report, however, is based only on those accidents which occurred on public roads.

Fatal accident: Accident in which one or more persons are killed.

Personal injury accident: Accident in which no one is killed, but one or more persons are injured.

Property damage accident: Accident in which no one is killed or injured, but there is property damage of \$500 or more.

Fatality: Person killed as a result of a traffic accident.

Alcohol-related: An accident where either a driver, bicyclist or pedestrian is listed on the motor vehicle accident report as drinking prior to the accident.

Vehicle miles: Iowa vehicle-mile figures are the estimated total number of miles traveled on Iowa primary and secondary highways, urban and rural roads, and streets by all vehicles during a given period.

Fatality rate: Number of fatalities per 100 million vehicle miles.

Accident rate: Number of accidents per 100 million vehicle miles, unless otherwise stated.

SUMMARY

General

1984: A look at Iowa

Accidents by month Fatal Accidents by month Fatalities

62,818 376 420

6,982	Dec.	30	33
5,500	Nov.	34	40
5,908	Oct.	48	51
4,729	Sept.	40	47
5,055	Aug.	38	39
4,922	July	38	40
5,101	June	33	37
4,972	May	28	32
4,245	April	20	23
5,540	March	29	32
4,283	Feb.	20	21
5,581	Jan.	18	25

In Iowa there was...

1 accident every
8.4 minutes

1 driver out of
every 19.3
involved in an
accident

1.1 lives lost per day
because of traffic
accidents. (A
total of 420 lives
were lost in
1984.)

76.1 persons injured
per day because
of traffic acci-
dents. (A total of
27,868 persons
were injured in
1984.)

In Iowa, motor vehicle accidents increased 2.7 percent in 1984 from the 61,190 accidents recorded in 1983. Fatalities decreased 17.6 percent in 1984 from 510 fatalities reported in 1983.

Nationally there were:

18,800,000 motor vehicle accidents

39,622 fatal accidents

44,241 fatalities

Nationally, motor vehicle accidents increased 4.3 percent in 1984, compared to the 18,300,000 accidents in 1983. Fatalities increased 3.9 percent in 1984 from the 42,589 fatalities reported in 1983.

SUMMARY Iowa Trends 1970-1984

Year	All Acc.	Fatalities	Persons Injured	Fatal Acc.	Injury Acc.	Vehicle Miles (Million)	Fatality ² Rate	Fatal ² Acc. Rate	All ² Acc. Rate	Licensed Drivers	Motor Vehicle Registrations
1970	87,808	912	33,101	752	22,339	16,053	5.68	4.68	547.0	1,678,262	1,839,530
1971	87,100	828	31,599	681	21,411	16,582	4.99	4.11	525.3	1,704,137	1,916,850
1972	91,918	875	35,484	722	23,814	17,127	5.11	4.22	536.7	1,752,595	2,012,245
1973	96,620	813	35,059	682	24,683	17,691	4.60	3.86	546.2	1,787,169	2,095,330
1974	91,117	685	31,741	583	22,851	17,250	3.97	3.38	528.2	1,846,870	2,178,530
1975	94,825	674	32,802	578	23,082	17,853	3.78	3.24	531.1	1,865,754	2,250,417
1976 ¹	98,000	785	34,096	663	24,218	18,441	4.26	3.60	531.4	1,959,150	2,300,721
1977	87,771	640	32,289	561	22,358	19,028	3.36	2.95	461.3	2,085,647	2,356,327
1978	91,213	650	31,631	563	21,651	19,467	3.34	2.89	468.6	2,398,656	2,474,790 ³
1979	86,969	655 ⁴	29,972	566 ⁴	20,727	18,959	3.45	2.99	458.7	2,419,501	2,540,547 ³
1980	77,800	626 ⁴	29,100	541 ⁴	20,280	18,305	3.42	2.96	425.0	2,408,793	2,554,379 ³
1981	68,263	612 ⁴	28,776	529 ⁴	19,945	18,715	3.27	2.83	364.8	2,472,614	2,592,604 ³
1982	61,549	480 ⁴	25,905	431 ⁴	17,933	18,194	2.64	2.37	338.3	1,977,911 ⁵	2,577,994 ³
1983	61,190	510	26,050	434	18,049	19,712	2.59	2.20	310.4	1,998,982	2,542,267 ³
1984	62,818	420	27,868	376 ⁴	19,378	21,407	1.96	1.76	293.4	2,000,085	2,655,529 ³

1 All accident figures for 1976 are estimated except for figures on fatal accidents.

2 Per 100 million vehicle miles traveled.

3 Revised by DOT Office of Driver Services to exclude trailers, travel trailers and mobile homes. Vehicles registered to Iowa non-residents are included.

4 Beginning with 1979, figures for fatalities and fatal accidents are based on persons who died within 30 days of the traffic accident. Previous years' totals included persons who died within one year of the accident.

5 Drop in number of licensed drivers is due to more accurate method of computation.

Year	All ¹ Acc.	Fatalities	Persons ² Injured	Fatal Acc.	Vehicle ³ Miles (Billion)	Fatality ⁴ Rate	Fatal ⁴ Acc. Rate	All ^{4, 5} Acc. Rate	Licensed ^{3, 6} Drivers	Motor Vehicle ^{3, 6} Registrations
1970	16,400,000 ⁵	52,627	2,961,000	NA	1,110	4.74	NA	1,477.5	111,542,787	111,242,295
1971	17,000,000 ⁵	52,542	4,044,000	NA	1,179	4.46	NA	1,441.9	114,425,900	116,330,037
1972	16,600,000 ⁵	54,589	3,761,000	NA	1,260	4.33	NA	1,317.5	118,414,474	122,556,550
1973	15,600,000 ⁵	54,052	2,960,000	NA	1,313	4.12	NA	1,188.1	121,545,736	130,024,945
1974	15,600,000	45,196	4,075,000	NA	1,281	3.53	NA	1,217.8	125,426,582	134,899,955
1975	16,500,000	44,525	4,225,000	39,161	1,328	3.35	2.95	1,242.5	129,790,666	137,912,779
1976	16,800,000	45,523	4,107,000	39,747	1,412 ⁵	3.25 ⁵	2.84 ⁵	1,198.3	134,035,641	143,476,236
1977	17,600,000	47,878	4,392,000	42,210 ⁵	1,467 ⁵	3.26	2.88 ⁵	1,199.7	138,120,893	146,973,718
1978	18,300,000	50,331	3,827,000	44,433	1,545 ⁵	3.26 ⁵	2.88 ⁵	1,184.5	140,843,907	153,282,476
1979	18,100,000	51,093 ⁵	4,248,000 ⁵	45,223 ⁵	1,529 ⁵	3.34	2.96	1,184.4	143,283,995	157,291,431
1980	17,900,000	51,091 ⁵	3,694,000 ⁵	45,284 ⁵	1,528 ⁵	3.34 ⁵	2.96 ⁵	1,171.5	145,295,036	161,490,159
1981	18,000,000	49,301 ⁵	5,019,000 ⁵	44,000 ⁵	1,550 ⁵	3.18 ⁵	2.84 ⁵	1,153.8	147,075,169 ⁵	164,287,643 ⁵
1982	18,100,000	43,945 ⁵	NA	39,092 ⁵	1,592 ⁵	2.76 ⁵	2.46 ⁷	1,136.9	150,309,519 ⁵	165,203,000 ⁵
1983	18,300,000	42,589 ⁵	NA	37,976 ⁵	1,658 ⁵	2.57 ⁵	2.29 ⁵	1,103.7	154,221,003 ⁵	169,395,000 ⁵
1984	18,800,000	44,241 ⁷	NA	39,622 ⁷	1,717 ⁷	2.58 ⁷	2.31 ⁷	1,094.9	155,391,000 ⁷	171,997,000 ⁷

Figures obtained from U.S. Department of Transportation, National Highway Traffic Safety Administration, unless otherwise noted. All rates calculated by the Office of Driver Services.

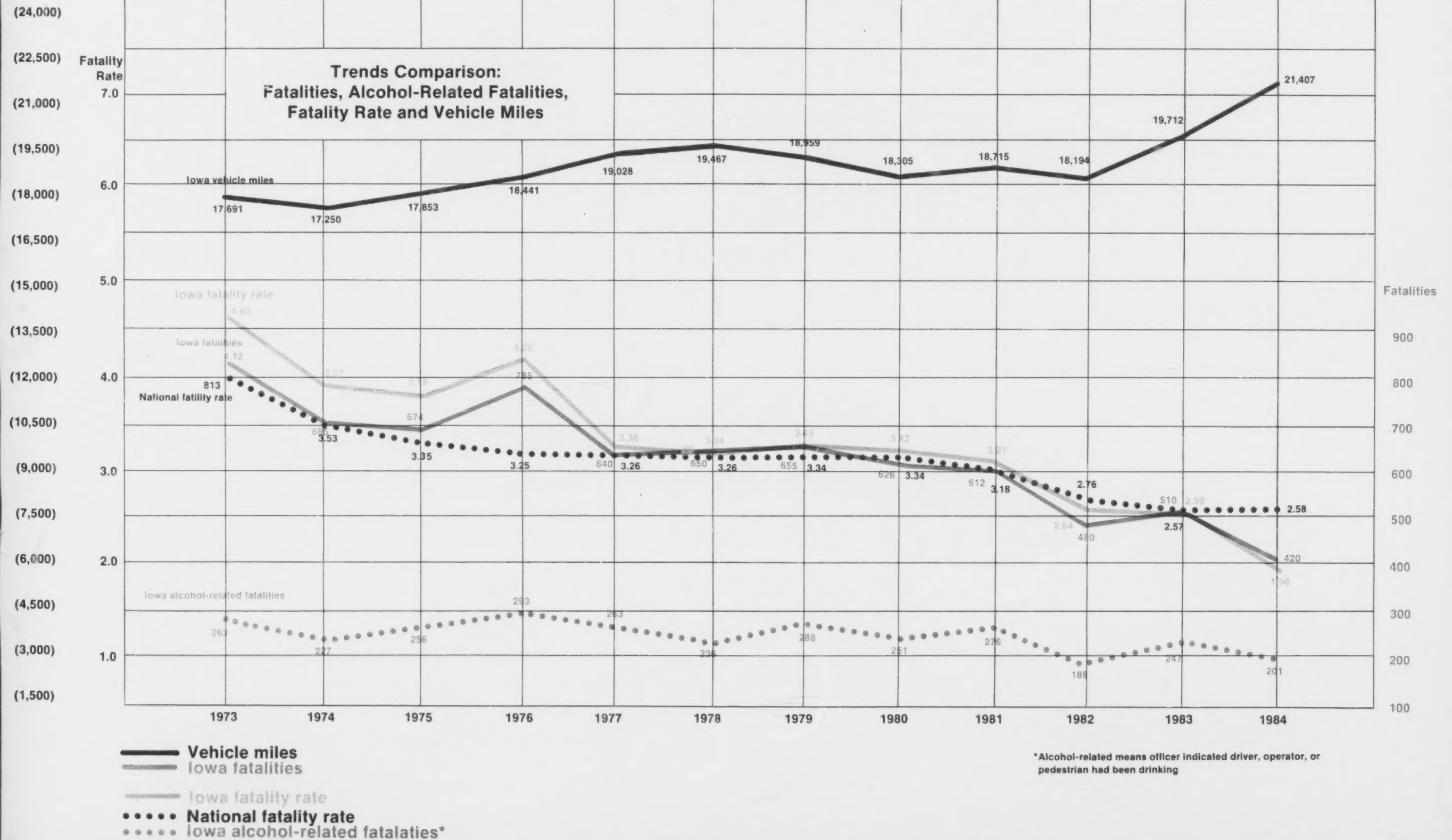
- 1 Figures from National Safety Council.
- 2 National Health Interview System, National Center for Health Statistics.
- 3 Federal Highway Administration, Highway Statistical Division.
- 4 Per 100 million vehicle miles traveled.
- 5 Updated/revised.
- 6 Estimated.
- 7 Preliminary

SUMMARY
National Trends
1970-1984

SUMMARY

**Vehicle Miles/
Fatalities**

Vehicle Miles



SUMMARY

**Time: Fatal/All
Accidents**

Time of Day and Day of Week

All accidents and fatal accidents and
alcohol-related fatal accidents:
Iowa, 1984

Time and day of the week information was available for
369 of the 376 fatal accidents which occurred in 1984.
This information was available for 61,042 of the 62,818
accidents reported.

— Fatal Accid
Alcohol-Re
— All Acciden

All accidents

4.000
3.500
3.000
2.500
2.000
1.500
1.000
500

Midnight-2:59 a.m.

3:00-5:59 a.m.

6:00-8:59 a.m.

9:00-11:59 a.m.

Noon-2:59 p.m.

3:00-5:59 p.m.

6:00-8:59 p.m.

9:00-11:59 p.m.

Midnight-2:59 a.m.

3:00-5:59 a.m.

6:00-8:59 a.m.

9:00-11:59 a.m.

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9:00-11:59 p.m.

Midnight-2:59 a.m.

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6:00-8:59 p.m.

9:00-11:59 p.m.

Midnight-2:59 a.m.

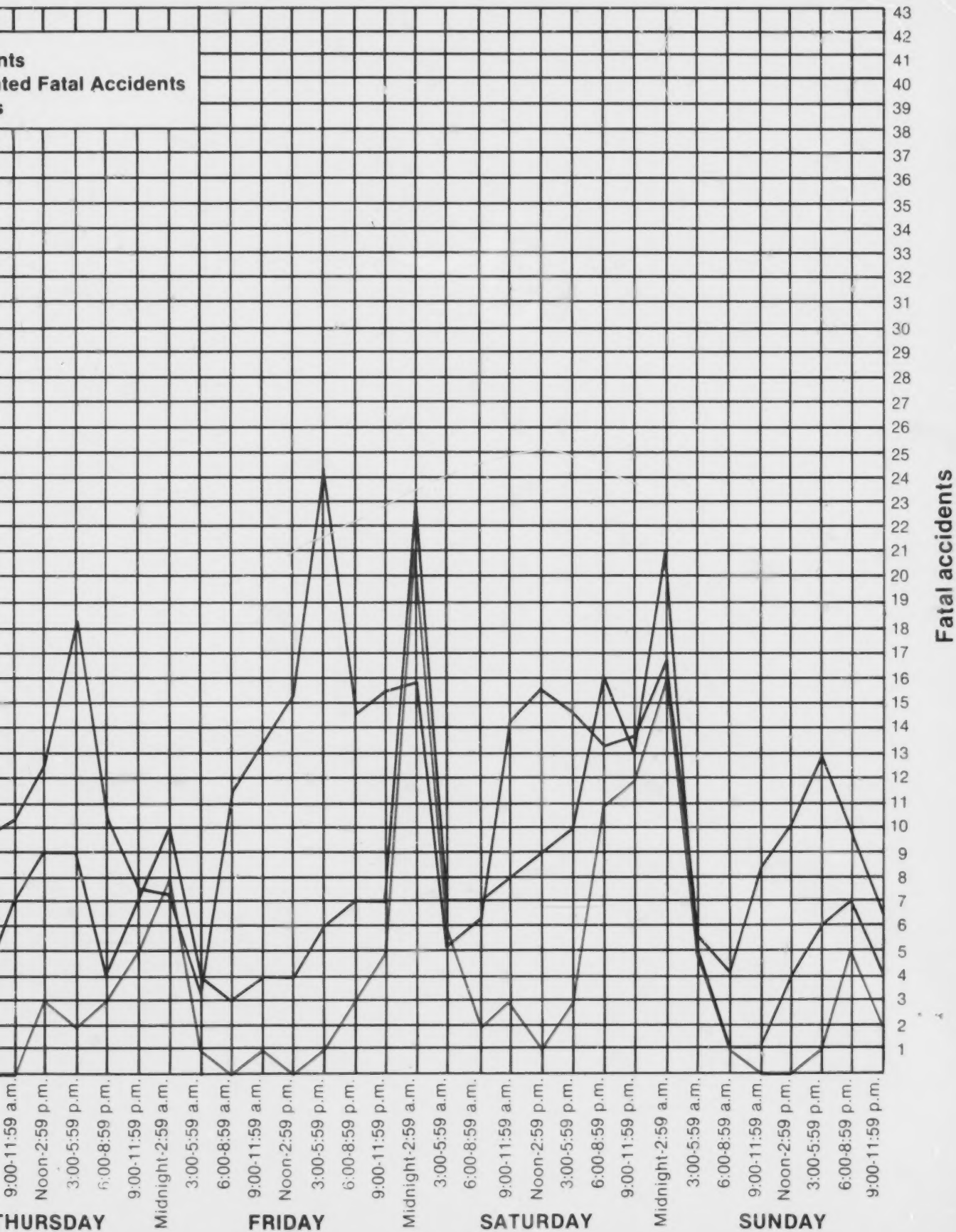
3:00-5:59 a.m.

6:00-8:59 a.m.

MONDAY

TUESDAY

WEDNESDAY



SUMMARY

Drivers/Fatalities Age/Sex

Age	Licensed Drivers*	Drivers Involved in Accidents	Drivers Involved in Fatal Acc.	Acc. Rate**†	Fatal Acc. Rate**†	Persons Killed***
15 & younger	50,026	969	7	193.7	1.4	37
16	49,302	3,938	22	798.8	4.5	11
17	36,907	4,486	16	1,215.5	4.3	16
18	38,468	4,749	24	1,234.5	6.2	17
19	40,527	4,574	32	1,128.6	7.9	23
20	44,110	4,221	23	956.9	5.2	22
21	46,962	3,824	22	814.3	4.7	11
22	46,862	3,539	13	755.2	2.8	13
23	44,579	3,395	21	761.6	4.7	14
24	45,853	3,191	27	695.9	5.9	18
25-34	450,182	23,472	131	521.4	2.9	88
35-44	333,125	13,446	67	403.6	2.0	33
45-54	247,393	8,408	54	339.9	2.2	28
55-64	246,204	7,365	48	299.1	1.9	3.2
65-74	187,662	4,850	24	258.4	1.3	23
75 & older	91,923	2,968	26	322.9	2.8	34
Total (age known)	2,000,085	97,395	557			420
Age unknown		6,190	8			
GRAND TOTAL	2,000,085	103,585	565	517.9	2.8	420

Sex	Licensed Drivers*	Drivers Involved in Accidents	Drivers Involved in Fatal Acc.	Acc. Rate**†	Fatal Acc. Rate**†	Persons Killed
Male	988,741	65,530	459	662.8	4.6	302
Female	1,011,344	34,896	102	345.0	1.0	118
Total (sex known)	2,000,085	100,426	561			420
Sex unknown		3,159	4			
GRAND TOTAL	2,000,085	103,585	565	517.9	2.8	420

* Includes instruction permits and school permits (permits to drive to and from school)

** Accidents/fatal accidents per 10,000 licensed drivers

*** Of persons killed, 9 were age 4 or under, 11 were age 5-9, and 12 were age 10-14.

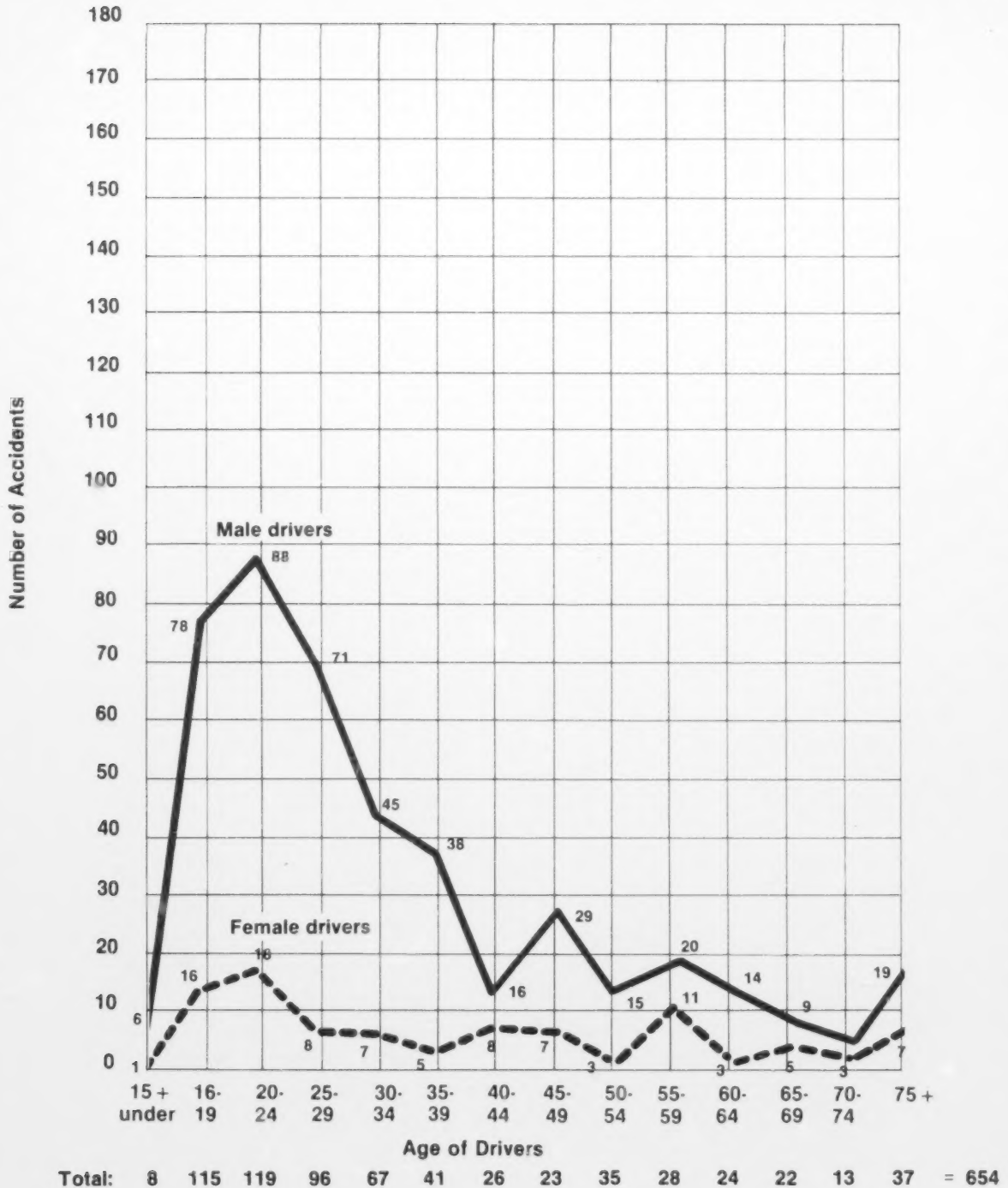
† Accident rates can be converted to percentage figures by moving the decimal two spaces to the left. For example -- for age 17 the accident rate is 1,215.5 per 10,000 licensed drivers. As a percentage (per 100 licensed drivers), the accident rate is 12.16. This means 12 percent of all 17-year-olds licensed in Iowa were involved in accidents during 1984.

SUMMARY

Driver:
Age/Sex

1984 Fatal Accidents

Drivers:		
Male	459	81.2%
Female	102	18.1%
Sex unknown	4	0.7%
Total	565	100.1%



SUMMARY

Drinking/Driving

During 1984, 46.8 percent of the fatal accidents and 47.9 percent of the fatalities were alcohol-related. Alcohol involvement is more apt to occur, and more likely to be reported, in fatal accidents than in non-fatal accidents.

In Iowa during 1984 drivers involved in fatal accidents were not required by law to submit to an alcohol test. Testing for alcohol in both fatal and all accidents was based on ""probable cause," as determined by the investigating officer. Care should be used in comparing the yearly percentages of alcohol-related fatal accidents due to fluctuations in the number of reports received.

Iowa alcohol-related accident figures should not be compared to states where an alcohol test is mandatory.

Age of Drinking Drivers Involved in Accidents

Driver Age	All Accidents		Fatal Accidents				Injury Accidents		Property Damage Accidents	
	No. of Drivers	%	No. of Drivers	%	Persons* Killed	%	No. of Drivers	%	No. of Drivers	%
15 & younger	23	0.5	0	--	0	--	10	0.4	13	0.6
16	84	1.7	5	2.8	8	3.7	48	1.9	31	1.4
17	178	3.6	4	2.2	4	1.9	98	3.9	76	3.4
18	293	5.9	7	3.9	8	3.7	158	6.3	128	5.8
19	408	8.3	18	10.0	25	11.7	211	8.4	179	8.1
20	315	7.6	11	6.1	13	6.1	200	7.9	164	7.4
21	327	6.6	10	5.6	12	5.6	163	6.5	154	6.9
22	280	5.7	6	3.3	8	3.7	159	6.3	115	5.2
23	256	5.2	11	6.1	13	6.1	121	4.8	124	5.6
24	262	5.3	12	6.7	16	7.5	131	5.2	119	5.4
25-34	1,368	27.8	53	29.4	57	26.6	721	28.6	594	26.7
35-44	559	11.4	22	12.2	24	11.2	297	11.8	240	10.8
45-54	237	4.8	9	5.0	11	5.1	95	3.8	133	6.0
55-64	146	3.0	4	2.2	5	2.3	65	2.6	77	3.5
65-74	73	1.5	5	2.8	7	3.3	32	1.3	36	1.6
75 & older	18	0.4	0	--	0	--	9	0.4	9	0.4
Not stated	38	0.8	3	1.7	3	1.4	5	0.2	30	1.4
Total no. of drivers	4,925		180		214		2,523		2,222	

* Figure includes all persons killed in accidents involving a drinking driver of the given age.
NOTE: The figures do not add up to the total of 201 persons killed in alcohol-related accidents in 1984. For instance, a person killed in an accident involving both a 17-year-old drinking driver and a 21-year-old drinking driver would be included in both age categories. A person killed in an accident involving two 19-year-old drinking drivers, however, would be listed only once.

SUMMARY

Holiday Fatalities 1962-1984

Holiday Traffic Fatalities Iowa, 1962-84

In 1984, for the holidays described in the table below, the average number of deaths per day was 1.4. The average number of deaths per day for weekends in 1984 was 1.4.

Note: Holiday periods include the number of full days shown in parentheses. Fatalities occurring from 6 p.m. to midnight on the previous day are also included. Regular weekend periods are from 6 p.m. Friday to midnight Sunday.

Beginning with 1981, the number of days included in a holiday periods have been standardized as follows:

- 1 day if holiday falls on Wednesday
- 3 days if holiday falls on Friday through Monday
- 4 days if holiday falls on Tuesday or Thursday

Year	New Year's Day	Memorial Day	Fourth of July	Labor Day	Thanksgiving Day	Christmas Day
1962	3 (4)	2 (2)	-- (1)	5 (3)	No Record	11 (4)
1963	4 (1)	6 (4)	18 (4)	8 (3)	No Record	7 (1)
1964	3 (3)	4 (3)	7 (3)	15 (3)	No Record	13 (3)
1965	7 (3)	6 (3)	9 (3)	11 (3)	No Record	13 (3)
1966	6 (3)	11 (3)	7 (3)	27 (3)	No Record	6 (3)
1967	4 (3)	7 (4)	13 (4)	9 (3)	No Record	8 (3)
1968	1 (1)	11 (4)	16 (4)	18 (3)	10 (4)	5 (1)
1969	12 (4)	7 (3)	10 (3)	11 (3)	13 (4)	7 (4)
1970	8 (3)	8 (3)	10 (3)	13 (3)	12 (4)	7 (3)
1971	4 (3)	5 (3)	12 (3)	15 (3)	12 (4)	9 (3)
1972	5 (3)	9 (3)	3 (1)	6 (3)	14 (4)	12 (3)
1973	6 (4)	7 (3)	5 (1)	11 (3)	14 (4)	9 (4)
1974	6 (1)	4 (3)	8 (4)	16 (3)	13 (4)	4 (1)
1975	5 (4)	6 (3)	7 (3)	8 (3)	3 (4)	5 (4)
1976	9 (3)	6 (3)	16 (3)	10 (3)	9 (4)	5 (3)
1977	1 (3)	11 (3)	16 (3)	6 (3)	7 (4)	5 (3)
1978 ^{1 2}	1/0 (3)	13/6 (3)	8/5 (4)	5/1 (3)	12/5 (4)	3/2 (4)
1979	3/3 (3)	9/5 (3)	8/4 (1)	11/8 (3)	10/6 (4)	11/6 (4)
1980	13/7 (4)	5/2 (3)	9/7 (3)	11/6 (3)	13/9 (4)	1/1 (4)
1981	8/4 (4)	8/3 (3)	6/2 (3)	7/4 (3)	7/2 (4)	6/1 (3)
1982	4/3 (3)	3/2 (3)	5/3 (3)	9/6 (3)	8/3 (4)	10/2 (3)
1983	17/11 (3)	10/9 (3)	9/8 (3)	6/2 (3)	3/1 (4)	2/0 (3)
1984	3/3 (3)	4/0 (3)	3/2 (1)	7/7 (3)	4/0 (0)	6/2 (4)

¹ Beginning with 1978, the number of alcohol-related traffic fatalities for a given holiday is included, in addition to the total number of holiday fatalities. The number of all fatalities is on the left of the slash mark; the number of alcohol-related fatalities is on the right. As for previous years, the number of days included in the holiday is in parentheses.

² In some cases, holiday fatality figures for 1978 through 1982 have been revised.

Iowa Accidents Involving Fatalities

In 1984 there were:
420 persons killed in 376 fatal accidents

The Driver

Driver Action/ Contributing Circumstances	Number of Drivers	Percent
Ran traffic control	22	3.9
Improper passing	4	0.7
Left of center, not passing	53	9.4
Failure to yield	46	8.1
Wrong way, one-way road	4	0.7
Speed too fast	59	10.4
Drag racing	2	0.4
Improper turn	4	0.7
Improper lane change	0	--
Following too close	4	0.7
Improper or no signal	1	0.2
Disregarded R.R. signal	0	--
Disregarded warning signal	1	0.2
Reckless driving	14	2.5
Improper backing	1	0.2
Illegal or improper parking	3	0.5
Failure to have control	129	22.8
Lights not on	0	--
Inattentive/distracted	30	5.3
Confused/inexperienced	13	2.3
Vision obscured	14	2.5
Oversized vehicle	0	--
Other	33	5.8

Note: From 0-2 actions/circumstances are listed for each driver involved in an accident.

Driver Condition	Number of Drivers	Percent
Apparently normal	292	60.0
Drinking - impaired	137	28.1
Drinking - not impaired	36	7.4
Drugs	1	0.2
Physical defect	1	0.2
Fatigued	0	--
Apparently asleep	7	1.4
Ill	2	0.4
Under medication	2	0.4
Infirmities of age	5	1.0
Other	4	0.8
Total no. of drivers (condition stated)	487	
Condition not stated	78	
GRAND TOTAL	565	

Driver Sex	Number of Drivers	Percent
Male	459	81.8
Female	102	18.2
Total no. of drivers (sex known)	561	
Sex not stated	4	
GRAND TOTAL	565	

Driver Age	Number of Drivers	Percent
15 & younger	7	1.3
16	22	3.9
17	16	2.9
18	24	4.3
19	32	5.7
20	23	4.1
21	22	3.9
22	13	2.3
23	21	3.8
24	27	4.8
25-34	131	23.5
35-44	67	12.0
45-54	54	9.7
55-64	48	8.6
65-74	24	4.3
75 & older	26	4.7
Total no. of drivers (age known)	557	
Age not stated	8	
GRAND TOTAL	565	

Note: In 1984 fatal accidents, 78.5 percent of the vehicle occupants who were killed were not wearing seat belts, 4.2 percent were wearing seat belts, and seat belt use was unknown or unreported for 16.9 percent of those killed.

The Machine

Vehicle Action	Number of Vehicles	Percent
Going straight	457	81.2
Turning left	29	5.2
Turning right	10	1.8
Backing	3	0.5
Stopped in traffic	7	1.2
Parked	6	1.1
Making U-turn	1	0.2
Passing	13	
Changing lanes	6	
Merging	1	
Parking	1	
Slowing-stopping	3	
Unattended moving vehicle	2	
Other	24	
Total no. of vehicles (action stated)	563	
Action not stated	10	
GRAND TOTAL	573	

Note: Total number of vehicles includes parked farm vehicles involved in accidents.

Vehicle Defect	Number of Vehicles	Percent
None	378	94.5
Brakes	0	
Lights	1	
Steering	0	
Wipers	0	
Tires	14	
Trailer hitch	1	
Other	6	5.5
Total no. of vehicles (defect stated)	400	
Defect not stated	173	
GRAND TOTAL	573	

The Environment

Light	Number of Accidents	Percent
Dawn	3	0.8
Daylight	179	47.9
Dusk	11	2.9
Darkness (road lighted)	45	12.0
Darkness (road unlighted)	136	36.4
Total no. of accidents (light stated)	374	
Light not stated	2	
GRAND TOTAL	376	

Note: Figures indicate number of accidents involving farm vehicles occurring under the conditions indicated.

Weather	Number of Accidents	Percent
Clear	213	56.6
Cloudy	125	33.2
Fog	19	5.1
Mist	16	4.3
Rain	23	6.1
Sleet/hail	0	--
Snow	9	2.4
Strong wind	11	2.9
Other	2	0.5

Note: Some accident reports listed more than one type of weather condition. The percentage listed for each weather condition is based on the total number of accidents for this type of vehicle.

Fixed Object Struck	Vehicles Striking Object	Percent
Bridge/overpass	16	9.1
Underpass/bridge support	1	0.6
Building	2	1.1
Culvert	7	4.0
Curb	9	5.1
Ditch	58	33.0
Island/raised median	0	--
Embankment/retaining wall	11	6.3
Fence	6	3.4
Guardrail	11	6.3
Light pole	6	3.4
Sign post	8	4.5
Tree or shrubbery	13	7.4
Utility pole	10	5.7
Other pole or support	8	4.5
Mailbox	2	1.1
Impact attenuator	0	--
Other	8	4.5

30.7% of farm vehicles involved in accidents struck fixed objects.

Note: Impact attenuators are crash-cushioning devices.

Traffic Controls	Number of Accidents	Percent
No controls	244	64.9
Traffic signals	15	4.0
Stop sign	44	11.7
Yield sign	3	19.4
No passing zone (marked)	17	
R.R. warning sign	6	
R.R. automatic signal	1	
R.R. crossing gate	0	
Other	46	
Total no. of accidents (control stated)	376	
Control not stated		
GRAND TOTAL	376	

Iowa Accidents Involving

Alcohol

In 1984 there were:

- 201 persons killed in alcohol-related accidents, or 47.9 percent of all traffic fatalities
- 3,785 persons injured in alcohol-related accidents
- 4,827 accidents involving alcohol and motor vehicles
- 175 fatal accidents involving alcohol and motor vehicles, or 46.8 percent of all fatal accidents
- 2,495 personal injury accidents involving alcohol and motor vehicles
- 2,157 property damage accidents involving alcohol and motor vehicles

The Driver

Driver Action/ Contributing Circumstances	Number of Drivers/ Operators	Percent
--	---------------------------------------	---------

Drinking driver/operator actions:

Ran traffic control	208	4.2
Improper passing	54	1.1
Left of center, not passing	277	5.6
Failure to yield	267	5.4
Wrong way, one-way road	16	0.3
Speed too fast	649	13.2
Drag racing	3	*
Improper turn	45	0.9
Improper lane change	41	0.8
Following too close	86	1.7
Improper or no signal	12	0.2
Disregarded R.R. signal	3	*
Disregarded warning signal	8	0.2
Reckless driving	231	4.7
Improper backing	41	0.8
Illegal or improper parking	21	0.4
Failure to have control	2,290	46.5
Lights not on	19	0.4
Inattentive/distracted	271	5.5
Confused/inexperienced	87	1.8
Vision Obscured	127	2.6
Oversized vehicle	1	*
Other	528	10.7

Drinking pedestrian actions:

	Pedestrians	Percent
Crossing against signal	3	4.0
Crossing, not at crosswalk	15	20.0
Walking, improper position on roadway	14	18.7
Walking with traffic	2	2.7
Walking against traffic	1	1.3
Crossing with signal or in crosswalk	4	5.3
Ran onto roadway or into road from between parked cars	12	16.0
Playing	1	1.3
Pushing, working on vehicle	2	2.7
Lying or sitting on roadway	3	4.0
Getting on or off vehicle	10	13.3
Walking, off roadway	4	5.3
Unknown/other	4	5.3

Note: From 0-2 action/circumstances are listed for each drinking driver, operator or pedestrian involved in an accident.

Condition	Number of Drivers/ Operators	(%)	Number of Pedestrians	(%)
Drinking - impaired	3,149	64.3	45	60.0
Drinking - not impaired	1,731	35.3	30	40.0
Drugs	1	*	0	--
Physical defect	2	*	0	--
Fatigued	1	*	0	--
Apparently asleep	8	0.2	0	--
Ill	0	--	0	--
Under medication	1	*	0	--
Infirmities of age	2	*1	0	--
Other	4	0.1	0	--
Total no. of drivers (condition stated)	4,899		75	100.0
Condition not stated	26		0	
GRAND TOTAL	4,925		75	

Note: Some of the drinking drivers were not listed as 'condition - drinking,' but did have a blood alcohol content greater than 0. This may occur because the report form provides space to list only one condition, although more than one condition may have been applicable to the driver at the time. If the driver fell asleep at the wheel and possessed a BAC above 0, for instance, the officer may have listed the condition as 'apparently asleep.'

Sex	Number of Drivers/ Operators	(%)	Number of Pedestrians	(%)
Male	4,139	84.5	60	80.0
Female	757	15.5	15	20.0
Total no. of drivers (sex known)	4,896	100.0	75	100.0
Sex not stated	29			
GRAND TOTAL	4,925			

Age	Number of Drivers/ Operators	(%)	Number of Pedestrians	(%)
15 & younger	23	0.5	1	1.4
16	84	1.7	1	1.4
17	178	3.6	3	4.1
18	293	6.0	7	9.6
19	408	8.3	4	5.5
20	375	7.7	7	9.6
21	327	6.7	3	4.1
22	280	5.7	8	11.0
23	256	5.2	3	4.1
24	262	5.4	2	2.7
25-34	1,368	28.0	10	13.7
35-44	559	11.4	9	12.3
45-54	237	4.8	5	6.8
55-64	146	3.0	8	11.0
65-74	73	1.5	1	1.4
75 & older	18	0.4	1	1.4
Total no. of drivers (age known)	4,887		73	
Age not stated	38		2	
GRAND TOTAL	4,925		75	

Note: In 1984 alcohol-related accidents, 77.9 percent of the motor vehicle occupants who were killed or injured were not wearing seat belts, 2.8 percent were wearing seat belts, and seat belt use was unknown or unreported for 19.3 percent of those killed or injured.

The Machine

Vehicle Action	Number of Vehicles	Percent
Going straight	3,638	74.3
Turning left	451	9.2
Turning right	246	5.0
Backing	69	1.4
Stopped in traffic	31	0.6
Parked	12	0.2
Making U-turn	16	0.3
Passing	86	1.8
Changing lanes	47	1.0
Merging	28	0.6
Parking	6	0.1
Slowing-stopping	55	1.1
Unattended moving vehicle	1	*
Other	210	4.3
Total no. of vehicles (action stated)	4,896	
Action not stated	29	
GRAND TOTAL	4,925	

Note: Total number of vehicles includes vehicles parked with drinking drivers present.

Vehicle Defect	Number of Vehicles	Percent
None	4,042	97.2
Brakes	21	0.5
Lights	5	0.1
Steering	5	0.1
Wipers	3	0.1
Tires	60	1.4
Trailer hitch	0	--
Other	24	0.6
Total no. of vehicles (defect stated)	4,160	
Defect not stated	765	
GRAND TOTAL	4,925	

The Environment

Light	Number of Accidents	Percent
Dawn	34	0.7
Daylight	846	17.6
Dusk	143	3.0
Darkness (road lighted)	2,263	47.0
Darkness (road unlighted)	1,534	31.8
Total no. of accidents (light stated)	4,820	
Light not stated	7	
GRAND TOTAL	4,827	

Note: Figures indicate number of accidents involving alcohol occurring under the conditions indicated.

Weather	Number of Accidents	Percent
Clear	2,783	57.7
Cloudy	1,548	32.1
Fog	130	2.7
Mist	169	3.5
Rain	254	5.3
Sleet/hail	13	0.3
Snow	124	2.6
Strong wind	65	1.3
Other	11	0.2

Note: Some accident reports listed more than one type of weather condition. The percentages listed for each weather condition is based on the total number of accidents.

Fixed Object Struck	Vehicles Striking Object	Percent
Bridge/overpass	98	4.1
Underpass/bridge support	8	0.3
Building	100	4.2
Culvert	58	2.4
Curb	79	3.3
Ditch	575	24.3
Island/raised median	26	1.1
Embankment/retaining wall	74	3.1
Fence	147	6.2
Guardrail	76	3.2
Light pole	239	10.1
Sign post	141	6.0
Tree or shrubbery	197	8.3
Utility pole	276	11.7
Other pole or support	47	2.0
Mailbox	54	2.3
Impact attenuator	2	*
Other	172	7.3

48.1% of drinking drivers involved in accidents struck fixed objects.

Note: Impact attenuators are crash-cushioning devices.

Traffic Controls	Number of Accidents	Percent
No controls	3,524	73.8
Traffic signals	446	9.3
Stop sign	407	8.5
Yield sign	25	
No passing zone (marked)	73	
R.R. warning sign	12	8.3
R.R. automatic signal	11	
R.R. crossing gate	0	
Other	276	
Total no. of accidents (control stated)	4,774	
Control not stated	3	
GRAND TOTAL	4,777	

Note: The 4,777 figure does not include 50 accidents in which only the pedestrian was drinking.

SUMMARY

Pedestrians

Alcohol-Related Pedestrian Accidents:

	Fatal Acc.		Injury Acc.	
	No.	%	No.	%
Pedestrian (only) drinking	8	19.5	42	5.0
Driver (only) drinking	4	9.8	22	2.6
Pedestrian and driver drinking	2	4.9	19	2.2
No alcohol involvement	25	61.0	748	88.5
Unknown	2	4.9	14	1.7
Total	41		845	

Of all pedestrian fatalities, 48.8% were persons under 10 or over 64 years of age.

Fatalities:

Age	Killed	%	Injured	%
0-4	3	7.3	70	7.9
5-9	5	12.2	192	21.7
10-14	1	2.4	109	12.3
15-19	5	12.2	103	11.6
20-24	7	17.1	84	9.5
25-44	4	9.8	141	15.9
45-64	4	9.8	72	8.1
65+	12	29.3	58	6.5
Not stated	0	--	57	6.4
Total	41		886	

All Pedestrian Accidents:

Pedestrian Action	Killed Injured		Driver Action/ Contributing Circum.*	Fatal Acc. Injury Acc.	
Crossing against signal	0	28	Ran traffic control	0	13
Crossing, not at crosswalk	9	130	Improper passing	0	0
Walking, improper position on roadway	5	22	Left of center, not passing	0	4
Soliciting rides on road	1	5	Failure to yield	4	81
Walking with traffic	3	20	Speeding	2	11
Walking against traffic	1	8	Improper turn	0	2
Crossing with signal or in crosswalk	6	125	Improper lane change	0	0
Ran onto roadway or into road from between parked cars	5	272	Following too close	0	1
Directing traffic	0	10	Disregarded warning signal	0	0
Playing	1	31	Reckless driving	0	20
Lying or sitting on roadway	2	6	Improper backing	0	1
Pushing, working on vehicle	3	16	Failure to control	1	26
Getting on or off vehicle	3	41	Headlights not on	0	0
Maintenance/construction project	0	15	Inattentive/distracted	5	29
Walking, off roadway	1	33	Confused/inexperienced	1	12
Unknown	1	124	Vision obscured	5	101
Total	41	886	Vehicle defect	0	1
			Vehicle overloaded/oversized	0	2
			Other	6	61

*0-2 actions/circumstances were listed for each driver.

Fatalities by County 1980-1984



SUMMARY
Counties

Numbers represent fatalities, in order, for each year from 1980 through 1984.

SUMMARY

Counties

County	Registrations*	Licensed Drivers	All Acc.	Acc. Rate**	Fatal Acc.	Persons Killed	Injury Acc.	Persons Injured
Adair	9,659	6,518	164	170	3	3	38	65
Adams	5,873	3,991	113	192	1	1	42	55
Allamakee	13,540	10,171	282	208	5	5	74	103
Appanoose	14,204	10,348	262	184	2	2	69	110
Audubon	8,343	5,895	120	144	2	2	50	78
Benton	22,015	16,149	372	169	4	4	137	220
Black Hawk	116,701	91,000	2,799	240	9	10	972	1,348
Boone	23,621	17,630	493	209	2	2	169	255
Bremer	22,372	17,193	379	169	0	0	113	161
Buchanan	19,813	14,745	365	184	6	6	112	159
Buena Vista	20,343	14,757	478	235	6	8	145	223
Butler	17,262	12,513	227	132	1	1	78	117
Calhoun	13,147	9,285	203	154	2	2	72	104
Carroll	22,426	15,965	430	192	2	3	135	211
Cass	17,995	12,115	402	223	1	1	117	158
Cedar	17,909	12,336	323	180	4	4	93	133
Cerro Gordo	44,919	34,354	1,330	296	4	5	402	571
Cherokee	16,141	11,267	292	181	1	1	88	127
Chickawsaw	14,555	10,681	239	164	3	3	61	92
Clarke	8,221	6,026	177	215	0	0	43	71
Clay	18,403	13,616	406	221	1	1	130	195
Clayton	19,171	14,138	369	192	3	3	114	185
Clinton	49,407	38,556	1,310	265	3	5	299	414
Crawford	18,594	13,031	429	231	4	4	113	180
Dallas	28,852	21,048	497	172	2	2	178	242
Davis	8,752	5,962	142	162	0	0	51	76
Decatur	8,195	5,991	154	188	1	1	54	77
Delaware	16,864	12,994	315	187	3	3	105	161
Des Moines	43,272	31,668	884	204	4	5	263	379
Dickinson	15,049	11,381	383	255	2	3	117	179
Dubuque	73,433	61,408	2,174	296	11	11	731	1,047
Emmet	12,803	9,153	259	202	1	1	70	93
Fayette	22,221	17,097	354	159	3	5	110	168
Floyd	18,550	13,445	320	173	1	1	106	160
Franklin	12,336	8,965	255	207	4	4	71	106
Fremont	9,403	6,225	183	195	3	3	57	90

* County and total motor vehicle registration figures exclude trailers, travel trailers and mobile homes. Vehicles registered to non-Iowa residents are included.

** Per 10,000 registered vehicles.

SUMMARY

Counties

County	Registrations*	Licensed Drivers	All Acc.	Acc. Rate**	Fatal Acc.	Persons Killed	Injury Acc.	Persons Injured
Greene	12,629	8,484	214	169	1	1	65	115
Grundy	13,890	9,590	177	127	2	2	62	93
Guthrie	11,787	8,213	178	151	2	2	48	66
Hamilton	17,975	12,542	410	228	5	5	136	203
Hancock	13,527	9,573	183	135	2	2	58	97
Hardin	21,634	15,349	332	153	4	5	98	152
Harrison	16,120	11,093	341	212	5	5	100	142
Henry	17,946	13,182	329	183	4	9	103	155
Howard	10,323	7,501	134	130	6	6	39	67
Humboldt	12,415	8,817	188	151	1	1	63	99
Ida	9,314	6,397	146	157	4	5	39	58
Iowa	15,480	10,836	351	227	1	1	111	179
Jackson	19,564	14,781	303	155	2	3	95	139
Jasper	35,546	25,100	625	176	11	12	209	317
Jefferson	16,374	11,929	343	209	3	3	100	145
Johnson	62,254	56,983	2,043	328	9	11	646	936
Jones	18,455	13,329	319	173	2	2	88	126
Keokuk	13,098	9,061	156	119	3	3	59	98
Kossuth	21,626	15,291	327	151	1	1	109	150
Lee	38,315	28,823	909	237	5	6	270	395
Linn	145,371	120,009	3,506	241	12	12	1,077	1,534
Louisa	11,635	7,493	189	162	1	1	64	96
Lucas	9,931	7,079	210	211	4	4	66	89
Lyon	12,819	8,919	193	151	3	3	47	70
Madison	12,377	8,678	186	150	2	4	54	80
Mahaska	21,691	15,112	514	237	6	6	138	198
Marion	27,381	20,180	497	182	7	8	151	230
Marshall	39,357	29,458	966	245	8	9	338	481
Mills	12,430	8,730	298	240	2	2	103	161
Mitchell	11,746	8,522	176	150	2	2	54	89
Monona	11,283	8,016	210	186	0	0	62	100
Monroe	8,605	5,919	180	209	1	1	65	88
Montgomery	12,866	9,241	296	230	0	0	90	131
Muscatine	39,379	28,402	938	238	6	7	300	406
O'Brien	16,764	11,893	278	166	2	2	72	108
Osceola	8,253	5,698	106	128	3	3	25	37

* County and total motor vehicle registration figures exclude trailers, travel trailers and mobile homes. Vehicles registered to non-Iowa residents are included.

** Per 10,000 registered vehicles.

SUMMARY

Counties

County	Registrations*	Licensed Drivers	All Acc.	Acc. Rate**	Fatal Acc.	Persons Killed	Injury Acc.	Persons Injured
Page	17,115	12,755	291	170	4	4	69	98
Palo Alto	11,665	8,605	219	188	1	1	68	94
Plymouth	23,331	16,571	445	191	4	4	138	208
Pocahontas	11,181	7,944	142	127	3	3	40	64
Polk	293,608	218,391	10,709	365	30	32	3,192	4,467
Pottawattamie	83,161	59,673	2,296	276	10	10	669	905
Poweshiek	18,601	13,703	313	168	5	6	97	150
Ringgold	6,275	4,294	108	172	2	2	21	24
Sac	13,690	9,708	226	165	0	0	83	132
Scott	131,030	110,629	3,791	289	15	16	1,245	1,752
Shelby	14,815	10,480	182	123	0	0	43	67
Sioux	27,378	20,386	417	152	3	3	135	205
Story	52,173	46,474	1,399	268	7	8	382	536
Tama	19,137	13,209	287	150	3	5	74	121
Taylor	8,105	5,678	108	133	0	0	25	30
Union	12,968	9,524	330	254	3	3	82	113
Van Buren	8,256	5,703	109	132	4	5	36	57
Wapello	35,647	26,769	779	219	2	5	288	416
Warren	32,776	24,380	660	201	3	4	244	335
Washington	19,594	13,886	357	182	5	5	117	162
Wayne	7,839	5,463	97	124	3	3	23	32
Webster	40,658	30,133	1,230	303	9	12	357	498
Winnebago	13,110	9,153	194	148	3	4	62	92
Winneshiek	19,030	14,121	450	236	4	4	120	164
Woodbury	84,885	66,751	2,648	312	10	10	867	1,220
Worth	9,057	6,218	132	146	2	2	44	69
Wright	15,843	11,645	264	167	5	5	74	114
Total	2,655,529	2,000,085	62,818	237	376	420	19,378	2,647

* County and total motor vehicle registration figures exclude trailers, travel trailers and mobile homes. Vehicles registered to non-Iowa residents are included.

** Per 10,000 registered vehicles.

SUMMARY

Counties: Acc.
by Road System

	Interstate/ Freeway			U.S. or State Highway			County Road			City Street			Other/Unknown		
	Fat. Acc.	Inj. Acc.	P.D. Acc.	Fat. Acc.	Inj. Acc.	P.D. Acc.	Fat. Acc.	Inj. Acc.	P.D. Acc.	Fat. Acc.	Inj. Acc.	P.D. Acc.	Fat. Acc.	Inj. Acc.	P.D. Acc.
Adair	0	8	39	1	11	33	1	17	21	1	2	30	0	0	0
Adams	0	0	0	1	4	25	0	27	24	0	10	20	0	1	1
Allamakee	0	0	0	2	29	97	3	36	68	1	7	38	0	2	0
Appanoose	0	0	0	2	30	71	0	24	49	0	13	71	0	2	0
Audubon	0	0	0	1	25	20	1	19	20	0	6	28	0	0	0
Benton	0	0	0	1	55	89	3	58	69	0	24	72	0	0	1
Black Hawk	0	4	11	4	383	678	2	70	89	3	509	1,025	0	6	15
Boone	0	0	0	1	30	49	1	54	66	0	84	198	0	1	9
Bremer	0	0	0	0	51	135	0	40	53	0	22	77	0	0	1
Buchanan	0	0	0	0	43	128	6	47	72	0	22	47	0	0	0
Buena Vista	0	0	0	3	76	139	3	31	47	0	38	137	0	0	4
Butler	0	0	0	0	25	54	1	42	53	0	11	39	0	0	2
Calhoun	0	0	0	1	32	44	1	27	33	0	13	52	0	0	0
Carroll	0	0	0	1	64	122	1	26	43	0	43	127	0	2	1
Cass	0	17	51	0	53	123	1	23	34	0	24	73	0	0	3
Cedar	1	22	60	1	17	46	2	41	47	0	13	53	0	0	0
Cerro Gordo	0	14	40	4	204	404	0	35	65	0	144	401	0	5	14
Cherokee	0	0	0	0	41	107	1	22	37	0	24	55	0	1	4
Chickasaw	0	0	0	1	23	85	2	27	54	0	11	35	0	0	1
Clarke	0	10	23	0	21	52	0	8	29	0	3	27	0	1	3
Clay	0	0	0	1	60	118	0	29	53	0	40	102	0	1	2
Clayton	0	0	0	0	46	107	3	60	85	0	8	57	0	0	3
Clinton	0	0	0	3	126	374	0	42	87	0	129	534	0	2	13
Crawford	0	0	0	2	53	129	2	30	69	0	29	113	0	1	1
Dallas	0	20	36	1	66	94	1	45	62	0	46	124	0	1	1
Davis	0	0	0	0	19	38	0	21	31	0	11	20	0	0	2
Decatur	0	8	21	1	20	34	0	19	25	0	7	19	0	0	0
Delaware	0	0	0	1	35	72	2	51	88	0	15	44	0	4	3
Des Moines	0	0	0	3	85	165	1	29	66	0	144	375	0	5	11
Dickinson	0	0	0	0	64	137	2	31	51	0	17	71	0	5	5
Dubuque	0	0	0	6	271	566	2	86	111	3	369	741	0	5	14
Emmet	0	0	0	1	32	74	0	17	44	0	20	70	0	1	0
Fayette	0	0	0	2	51	83	1	51	78	0	7	75	0	1	5
Floyd	0	0	0	0	38	74	1	38	40	0	28	98	0	2	1
Franklin	0	8	32	1	31	67	2	20	44	1	12	34	0	0	3
Fremont	1	7	18	2	22	50	0	23	37	0	5	18	0	0	0
Greene	0	0	0	1	32	70	0	15	23	0	16	55	0	2	0
Grundy	0	0	0	0	21	38	2	31	37	0	10	37	0	0	1
Guthrie	0	0	0	1	27	61	1	19	38	0	2	29	0	0	0
Hamilton	1	17	40	3	23	58	1	38	46	0	55	113	0	3	12
Hancock	0	0	0	0	27	44	2	19	35	0	11	43	0	1	1
Hardin	0	0	0	1	32	110	2	29	41	1	35	76	0	2	3
Harrison	0	16	22	3	39	103	2	34	50	0	10	58	0	1	3
Henry	0	0	0	3	37	84	1	39	68	0	25	66	0	2	4
Howard	0	0	0	1	16	31	5	15	24	0	8	31	0	0	3

SUMMARY

Counties: Acc. by Road System

	Interstate/ Freeway			U.S. or State Highway			County Road			City Street			Other/Unknown		
	Fat. Acc.	Inj. Acc.	P.D. Acc.	Fat. Acc.	Inj. Acc.	P.D. Acc.	Fat. Acc.	Inj. Acc.	P.D. Acc.	Fat. Acc.	Inj. Acc.	P.D. Acc.	Fat. Acc.	Inj. Acc.	P.D. Acc.
Humboldt	0	0	0	0	20	38	1	20	33	0	21	53	0	2	0
Ida	0	0	0	3	18	41	1	15	27	0	6	33	0	0	2
Iowa	1	14	37	0	38	87	0	47	49	0	12	61	0	0	0
Jackson	0	0	0	2	49	101	0	25	36	0	21	69	0	0	0
Jasper	3	31	60	7	76	135	1	46	58	0	55	144	0	1	8
Jefferson	0	0	0	1	36	97	2	37	38	0	27	105	0	0	0
Johnson	1	54	126	3	230	424	4	113	137	1	244	690	0	5	11
Jones	0	0	0	2	39	95	0	39	65	0	10	62	0	0	7
Keokuk	0	0	0	1	39	46	2	12	26	0	6	22	0	2	0
Kossuth	0	0	0	1	41	82	0	42	57	0	26	77	0	0	1
Lee	0	0	0	4	148	322	1	45	70	0	69	229	0	8	13
Linn	2	65	141	3	328	727	3	98	113	4	579	1,413	0	7	23
Louisa	0	0	0	0	32	59	1	24	38	0	7	27	0	1	0
Lucas	0	0	0	2	27	50	2	17	33	0	19	56	0	3	1
Lyon	0	0	0	0	16	52	3	29	48	0	2	43	0	0	0
Madison	0	0	2	2	8	16	0	24	37	0	22	71	0	0	4
Mahaska	0	0	0	3	74	171	2	22	40	0	40	156	1	2	3
Marion	0	0	0	5	81	166	2	40	55	0	30	111	0	0	7
Marshall	0	0	0	4	145	224	2	64	91	2	127	295	0	2	10
Mills	0	8	20	0	43	71	2	38	44	0	13	58	0	1	0
Mitchell	0	0	0	2	17	45	0	23	35	0	14	40	0	0	0
Monona	0	8	17	0	21	51	0	26	31	0	6	48	0	1	1
Monroe	0	0	0	1	24	62	0	24	22	0	17	28	0	0	2
Montgomery	0	0	0	0	21	80	0	39	42	0	30	84	0	0	0
Muscatine	0	0	0	2	140	275	3	50	66	1	106	282	0	4	9
O'Brien	0	0	0	0	30	76	2	21	42	0	20	82	0	1	4
Osceola	0	0	0	3	12	33	0	11	20	0	2	25	0	0	0
Page	0	0	0	1	23	64	1	16	34	2	30	116	0	0	4
Palo Alto	0	0	0	1	31	63	0	18	34	0	19	53	0	0	0
Plymouth	0	0	0	2	56	103	2	48	75	0	34	124	0	0	1
Pocahontas	0	0	0	0	13	38	3	20	22	0	7	39	0	0	0
Polk	4	304	684	11	907	1,890	3	156	185	11	1,805	4,651	1	20	77
Pottawattamie	5	119	224	2	215	489	0	55	89	3	272	800	0	8	15
Poweshiek	1	21	29	1	37	86	2	23	32	1	16	64	0	0	0
Ringgold	0	0	0	0	9	34	2	8	37	0	4	14	0	0	0
Sac	0	0	0	0	33	53	0	33	34	0	15	53	0	2	3
Scott	1	67	145	7	427	842	1	48	88	6	688	1,427	0	15	29
Shelby	0	0	0	0	16	35	0	11	41	0	14	60	0	2	3
Sioux	0	0	0	1	61	135	2	41	57	0	33	83	0	0	4
Story	0	21	45	3	102	254	2	59	63	2	198	639	0	2	9
Tama	0	0	0	3	30	83	0	35	67	0	8	59	0	1	1
Taylor	0	0	0	0	11	35	0	10	27	0	4	20	0	0	1
Union	0	0	0	2	23	73	0	27	27	1	30	140	0	2	5
Van Buren	0	0	0	3	18	26	1	13	27	0	4	15	0	1	1
Wapello	0	0	0	2	98	154	0	50	63	0	136	258	0	4	14

SUMMARY

Counties: Acc.
by Road System

	Interstate/ Freeway			U.S. or State Highway			County Road			City Street			Other/Unknown		
	Fat. Acc.	Inj. Acc.	P.D. Acc.	Fat. Acc.	Inj. Acc.	P.D. Acc.	Fat. Acc.	Inj. Acc.	P.D. Acc.	Fat. Acc.	Inj. Acc.	P.D. Acc.	Fat. Acc.	Inj. Acc.	P.D. Acc.
Warren	2	31	37	0	94	180	1	78	98	0	40	95	0	1	3
Washington	0	0	0	1	55	111	3	38	54	0	23	69	1	1	1
Wayne	0	0	0	2	9	39	0	11	19	1	2	12	0	1	1
Webster	0	0	0	2	109	269	6	57	100	1	189	487	0	2	8
Winnebago	0	0	0	2	20	50	1	23	28	0	19	49	0	0	2
Winneshek	0	0	0	2	29	96	2	60	126	0	30	103	0	1	1
Woodbury	2	65	129	5	170	258	2	49	70	1	580	1,298	0	3	16
Worth	0	4	20	1	16	34	1	16	10	0	8	22	0	0	0
Wright	0	1	8	1	24	70	4	25	33	0	24	72	0	0	2
Total	25	966	2,118	167	6,877	14,471	135	3,524	5,219	46	7,845	20,794	3	166	462

SUMMARY

Cities

City	Population*	Number of Accidents		Persons Killed		Persons Injured		Acc. Rate**	
		1983	1984	1983	1984	1983	1984	1983	1984
1. Des Moines	191,003	7,358	7,903	17	16	2,931	3,043	385.2	413.8
2. Cedar Rapids	110,243	2,176	2,609	2	6	870	1,021	197.4	236.7
3. Davenport	103,264	2,681	2,796	16	10	1,168	1,249	259.6	270.8
4. Sioux City	82,003	2,543	2,346	11	7	979	1,057	310.1	286.1
5. Waterloo	75,985	1,756	1,734	6	3	852	890	231.1	228.2
6. Dubuque	62,321	1,493	1,604	2	4	587	728	239.6	257.4
7. Council Bluffs	56,449	1,832	1,757	12	8	663	659	324.5	311.3
8. Iowa City	50,508	997	1,130	1	1	320	428	197.4	223.7
9. Ames	45,775	901	970	2	1	308	331	196.8	211.9
10. Cedar Falls	36,322	661	681	2	3	276	248	182.0	187.5
11. Clinton	32,828	874	943	2	4	258	270	266.2	287.3
12. Mason City	30,144	801	879	3	1	311	360	265.7	291.6
13. Burlington	29,529	631	599	2	0	239	240	213.7	202.9
14. Fort Dodge	29,423	903	910	3	4	348	356	306.9	309.3
15. Bettendorf	27,381	501	503	0	2	214	241	183.0	183.7
16. Ottumwa	27,381	466	519	1	0	177	245	170.2	189.5
17. Marshalltown	26,938	576	638	0	1	235	289	213.8	236.8
18. Muscatine	23,467	663	625	3	1	293	230	282.5	266.3
19. West Des Moines	21,894	488	530	2	0	187	197	222.9	242.1
20. Marion	19,474	295	330	3	1	132	184	151.5	169.5
21. Urbandale	17,869	348	329	0	0	199	168	194.8	184.1
22. Ankeny	15,429	299	260	0	0	176	149	193.8	168.5
23. Newton	15,292	298	248	2	2	100	124	194.9	162.2
24. Keokuk	13,536	268	294	3	1	106	124	198.0	217.2
25. Fort Madison	13,520	309	330	3	0	100	101	228.6	221.9
26. Boone	12,602	244	276	0	0	120	120	193.6	219.0
27. Spencer	11,726	317	265	0	1	133	135	270.3	226.0
28. Oskaloosa	10,989	273	319	0	1	97	93	248.4	290.3
29. Indianola	10,843	197	212	0	0	74	86	181.7	195.5
30. Carroll	9,705	280	226	0	0	87	101	288.5	232.9
31. Fairfield	9,428	200	221	0	0	50	74	212.1	234.4
32. Grinnell	8,868	129	97	0	1	35	31	145.5	109.4
33. Storm Lake	8,814	316	254	0	0	107	101	358.5	288.2
34. Charles City	8,778	175	149	1	0	58	49	199.4	169.7

* List includes all Iowa cities with a population of 5,000 or more, based on 1980 census figures (including revisions made through January 1983). Figures provided by Office of the State Demographer, Office for Planning and Programming, Des Moines.

** Per 10,000 population.

SUMMARY

Cities

City	Population*	Number of Accidents		Persons Killed		Persons Injured		Acc. Rate**	
		1983	1984	1983	1984	1983	1984	1983	1984
35. Webster City	8,572	179	172	0	0	71	70	208.8	200.7
36. Waverly	8,444	156	138	2	0	56	51	184.7	163.4
37. Creston	8,429	202	214	0	2	60	43	239.6	253.9
38. Pella	8,349	169	135	0	0	64	55	202.4	161.7
39. Le Mars	8,276	215	156	1	0	67	50	259.8	188.5
40. Knoxville	8,143	144	120	0	0	44	36	176.8	147.4
41. Decorah	8,068	166	141	2	0	56	35	205.8	174.8
42. Atlantic	7,789	156	146	1	0	68	54	200.3	187.4
43. Coralville	7,687	312	316	3	0	160	162	405.9	411.1
44. Oelwein	7,564	95	94	1	0	44	32	125.6	124.3
45. Estherville	7,518	170	147	0	1	67	48	226.1	195.5
46. Clear Lake	7,458	142	181	0	1	66	79	190.4	242.7
47. Mount Pleasant	7,322	127	137	0	0	54	62	173.4	187.1
48. Perry	7,053	125	135	0	0	47	46	177.2	191.4
49. Cherokee	7,004	177	139	0	0	68	52	252.7	198.5
50. Red Oak	6,810	166	133	0	0	60	49	243.8	195.3
51. Denison	6,675	190	187	0	0	59	67	284.6	280.1
52. Washington	6,584	114	106	0	0	32	37	173.1	161.0
53. Centerville	6,558	127	117	0	0	47	34	193.7	178.4
54. Independence	6,392	116	126	0	0	31	44	181.5	197.1
55. Maquoketa	6,313	115	116	2	0	55	55	182.2	183.7
56. Algona	6,289	146	128	0	1	57	40	232.2	203.5
57. Shenandoah	6,274	123	93	0	0	50	31	196.0	148.2
58. Iowa Falls	6,174	120	125	0	1	55	58	194.4	202.5
59. Clive	6,064	169	203	0	0	78	114	278.7	334.8
60. Nevada	5,912	99	82	0	0	34	19	167.5	138.7
61. Altoona	5,764	60	66	0	0	22	15	104.1	114.5
62. Windsor Heights	5,474	150	149	0	3	62	53	274.0	272.2
63. Clarinda	5,458	84	82	0	3	12	15	153.9	150.2
64. Harlan	5,357	114	88	0	0	29	27	212.8	164.3
65. Glenwood	5,280	62	71	0	0	32	23	117.4	134.5
66. Vinton	5,040	52	57	0	0	20	18	103.2	113.1
67. Sheldon	5,003	133	106	0	0	44	44	265.8	211.9
68. Chariton	5,116	55	91	0	0	28	27	107.5	177.9

* List includes all Iowa cities with a population of 5,000 or more, based on 1980 census figures (including revisions made through January 1983).
Figures provided by Office of the State Demographer, Office for Planning and Programming, Des Moines.

** Per 10,000 population.

SUMMARY

Collision Accidents: Vehicle Type

Collision Accidents: Type of Vehicles Involved Iowa, 1984

In 1984, 79.1 percent of all Iowa accidents involved collisions between two or more vehicles. Three or more vehicles were involved in 6.9 percent of all accidents. The following table shows the number of accidents which involved a collision between a given combination of vehicles. (For instance: In 1984, 981 accidents involved a motorcycle/automobile collision.)

Example: If an accident involves two motorcycles and an automobile, it is counted once under motorcycle/automobile and once under motorcycle/motorcycle.

Vehicle Type	Automobile	Automobile/pickup with trailer or camper	Bus	School bus	Bicycle	Moped	Motorcycle	Farm Vehicle	Motor Home	Recreational Vehicle	Train	Panel/van/pickup	Straight truck	Tow/maintenance construction vehicle	Truck tractor	Truck tractor with Trailer	Other/unknown
Automobile	26,089	338	116	134	504	233	981	193	44	207	72	9,378	917	250	96	1,254	196
Automobile/pickup with trailer or camper	338	31	1	2	5	2	8	4	3	0	0	87	19	1	2	22	2
Bus	166	1	0	0	2	1	1	2	0	0	0	25	1	1	0	4	1
School bus	134	2	0	4	0	0	2	1	0	1	1	28	3	4	0	6	1
Bicycle	504	5	2	0	2	8	16	0	0	2	0	98	3	2	0	3	0
Moped	233	2	1	0	8	24	8	1	0	2	0	57	2	2	0	2	1
Motorcycle	981	8	1	2	16	8	69	5	1	4	1	198	21	7	2	17	4
Farm vehicle	193	4	2	1	0	1	5	3	0	2	1	55	17	2	0	22	0
Motor home	44	3	0	0	0	0	1	0	0	0	0	7	3	1	0	5	0
Recreational vehicle	207	0	0	1	2	2	4	2	0	6	0	41	13	2	1	9	2
Train	72	0	0	1	0	0	1	1	0	0	0	24	3	2	1	7	1
Panel/van/pickup	9,378	87	25	28	98	57	198	55	7	41	24	1,255	208	61	23	262	34
Straight truck	917	19	1	3	3	2	21	17	3	13	3	208	32	10	4	53	0
Tow/maintenance/ construction vehicle	250	1	1	4	2	2	7	2	1	2	2	61	10	6	2	10	0
Truck tractor	96	2	0	0	0	0	2	0	0	1	1	23	4	2	1	1	0
Truck tractor with trailer	1,254	22	4	6	3	2	17	22	5	9	7	262	53	10	1	97	1
Other/unknown	196	2	1	1	0	1	4	0	0	2	1	34	0	0	0	1	0

Number of Accidents Involving Specific Vehicle Types: 1984

Vehicle Type	All Accidents		Fatal Accidents		Drivers: % with Iowa Licenses*
	No.	Percent	No.	Percent	
Automobile	54,014	86.0	252	67.1	85.4
Automobile/pickup with trailer or camper	685	1.1	3	0.8	66.7
Bus	219	0.3	1	0.3	100.0
School bus	207	0.3	3	0.8	100.0
Bicycle	661	1.1	10	2.7	--
Moped	504	0.8	3	0.8	66.7
Motorcycle	2,132	3.4	44	11.7	91.3
Farm vehicle	338	0.5	17	4.5	100.0
Motor home	88	0.1	1	0.3	--
Recreational vehicle	371	0.6	5	1.3	80.0
Train	112	0.2	6	1.6	--
Panel/van/pickup	14,781	23.5	89	23.7	90.4
Straight truck	1,526	2.4	25	6.6	92.0
Tow/maintenance/construction vehicle	409	0.7	3	0.8	100.0
Truck tractor	156	0.2	0	--	--
Truck tractor with trailer**	2,433	3.9	49	13.0	60.8
Unknown/Other	2,701	4.3	3	0.8	33.3

"All Accidents" percentages are based on 62,818 accidents which occurred in 1984. Fatal accident percentages are based on 376 fatal accidents which occurred in 1984.

* 84.5 percent of all drivers involved in fatal accidents in Iowa during 1984 were licensed in Iowa.

** The 31 accidents involving double bottom trucks which occurred in 1984 are included in the "truck tractor with trailer" category. For more information, contact the DOT's Office of Driver Safety and Improvement.

Iowa Accidents Involving

All Vehicles

In 1984 there were:

- 369 motor vehicle occupants killed
- 26,343 motor vehicle occupants injured
- 62,818 accidents involving motor vehicles
 - 376 fatal accidents involving motor vehicles
 - 19,378 personal injury accidents involving motor vehicles
 - 43,064 property damage accidents involving motor vehicles

The Driver

Driver Action/ Contributing Circumstances	Number of Drivers	Percent
Ran traffic control	2,097	2.0
Improper passing	644	0.6
Left of center, not passing	935	0.9
Failure to yield	8,045	7.8
Wrong way, one-way road	72	0.1
Speed too fast	3,602	3.5
Drag racing	26	*
Improper turn	907	0.9
Improper lane change	926	0.9
Following too close	1,459	1.4
Improper or no signal	388	0.4
Disregarded R.R. signal	30	*
Disregarded warning signal	79	0.1
Reckless driving	533	0.5
Improper backing	982	0.9
Illegal or improper parking	174	0.2
Failure to have control	9,668	9.3
Lights not on	87	0.1
Inattentive/distracted	3,181	3.1
Confused/inexperienced	1,131	1.1
Vision obscured	5,588	5.4
Oversized vehicle	75	0.1
Other	3,491	3.4

Note: From 0-2 actions/circumstances are listed for each driver involved in an accident.

Driver Condition	Number of Drivers	Percent
Apparently normal	94,583	93.5
Drinking - impaired	3,141	3.1
Drinking - not impaired	1,727	1.7
Drugs	44	*
Physical defect	117	0.1
Fatigued	303	0.3
Apparently asleep	498	0.5
Ill	66	0.1
Under medication	74	0.1
Infirmities of age	383	0.4
Other	245	0.2
Total no. of drivers (condition stated)	101,181	
Condition not stated	2,404	
GRAND TOTAL	103,585	

Driver Sex	Number of Drivers	Percent
Male	65,530	65.3
Female	34,896	34.7
Total no. of drivers (sex known)	100,426	
Sex not stated	3,159	
GRAND TOTAL	103,585	

Driver Age	Number of Drivers	Percent
15 & younger	969	1.0
16	3,938	4.0
17	4,486	4.6
18	4,749	4.9
19	4,574	4.7
20-24	18,170	18.7
25-34	23,472	24.1
35-44	13,446	13.8
45-54	8,408	8.6
55-64	7,365	7.6
65-74	4,850	5.0
75 & older	2,968	3.0
Total no. of drivers (age known)	97,395	
Age not stated	6,190	
GRAND TOTAL	103,585	

Note: In 1984 motor vehicle accidents, 67.6 percent of the motor vehicle occupants who were killed or injured were not wearing seat belts, 4.0 percent were wearing seat belts, and seat belt use was unknown or unreported for 28.4 percent of those killed or injured.

The Machine

Vehicle Action	Number of Vehicles	Percent
Going straight	67,875	63.9
Turning left	11,427	10.8
Turning right	4,195	3.9
Backing	2,747	2.6
Stopped in traffic	4,775	4.5
Parked	6,371	6.0
Making U-turn	247	
Passing	1,383	
Changing lanes	1,621	
Merging	594	8.3
Parking	194	
Slowing-stopping	2,948	
Unattended moving vehicle	141	
Other	1,689	
Total no. of vehicles (action stated)	106,207	
Action not stated	3,890	
GRAND TOTAL	110,097	

Note: Total number of vehicles includes parked vehicles involved in accidents.

Vehicle Defect	Number of Vehicles	Percent
None	72,761	98.2
Brakes	353	
Lights	133	
Steering	82	
Wipers	23	
Tires	317	
Trailer hitch	40	
Other	384	1.8
Total no. of vehicles (defect stated)	74,093	
Defect not stated	36,004	
GRAND TOTAL	110,097	

The Environment

Light	Number of Accidents	Percent
Dawn	869	1.4
Daylight	39,632	64.0
Dusk	2,196	3.5
Darkness (road lighted)	10,125	16.4
Darkness (road unlighted)	9,085	14.7
Total no. of accidents (light stated)	61,907	
Light not stated	911	
GRAND TOTAL	62,818	

Note: Figures indicate number of accidents involving all vehicles occurring under the conditions indicated.

Weather	Number of Accidents	Percent
Clear	37,487	59.7
Cloudy	15,779	25.1
Fog	1,264	2.0
Mist	1,930	3.1
Rain	3,855	6.1
Sleet/hail	550	0.9
Snow	2,768	4.4
Strong wind	713	1.1
Other	189	0.3

Note: Some accident reports listed more than one type of weather condition. The percentage listed for each weather condition is based on the total number of accidents for all types of vehicles.

Fixed Object Struck	Vehicles Striking Objects	Percent
Bridge/overpass	705	4.9
Underpass/bridge support	59	0.4
Building	394	2.8
Culvert	334	2.3
Curb	655	4.6
Ditch	3,899	27.3
Island/raised median	191	1.3
Embankment/retaining wall	366	2.6
Fence	928	6.5
Guardrail	609	4.3
Light pole	1,073	7.5
Sign post	952	6.7
Tree or shrubbery	921	6.4
Utility pole	1,141	8.0
Other pole or support	365	2.6
Mailbox	278	1.9
Impact attenuator	88	0.6
Other	1,325	9.3

13.0% of all vehicles involved in accidents struck fixed objects.

Note: Impact attenuators are crash-cushioning devices.

Traffic Controls	Number of Accidents	Percent
No controls	42,455	67.7
Traffic signals	8,397	13.4
Stop sign	8,628	13.8
Yield sign	704	5.2
No passing zone (marked)	568	
R.R. warning sign	91	
R.R. automatic signal	84	
R.R. crossing gate	23	
Other	1,767	
Total no. of accidents (control stated)	62,717	
Control not stated	101	
GRAND TOTAL	62,818	

Iowa Accidents Involving

Automobiles

In 1984 there were:

- 239 automobile occupants killed
- 19,360 automobile occupants injured
- 54,014 accidents involving automobiles
- 254 fatal accidents involving automobiles
- 15,761 personal injury accidents involving automobiles
- 37,999 property damage accidents involving automobiles

The Driver

Driver Action/ Contributing Circumstances	Number of Drivers	Percent
Ran traffic control	1,660	2.2
Improper passing	433	0.6
Left of center, not passing	673	0.9
Failure to yield	6,419	8.4
Wrong way, one-way road	59	0.1
Speed too fast	2,648	3.4
Drag racing	18	*
Improper turn	640	0.8
Improper lane change	647	0.8
Following too close	1,065	1.4
Improper or no signal	244	0.3
Disregarded R.R. signal	20	*
Disregarded warning signal	51	0.1
Reckless driving	390	0.5
Improper backing	569	0.7
Illegal or improper parking	117	0.2
Failure to have control	6,870	8.9
Lights not on	69	0.1
Inattentive/distracted	2,360	3.1
Confused/inexperienced	828	1.1
Vision obscured	4,117	5.4
Oversized vehicle	9	*
Other	2,306	3.0

Note: From 0-2 actions/circumstances are listed for each driver involved in an accident

Driver Condition	Number of Drivers	Percent
Apparently normal	70,471	93.6
Drinking - impaired	2,279	3.0
Drinking - not impaired	1,264	1.7
Drugs	31	*
Physical defect	84	0.1
Fatigued	210	0.3
Apparently asleep	344	0.5
Ill	50	0.1
Under medication	55	0.1
Infirmities of age	344	0.5
Other	177	0.2
Total no. of drivers (condition stated)	75,309	
Condition not stated	1,536	
GRAND TOTAL	76,845	

Driver Sex	Number of Drivers	Percent
Male	43,945	57.9
Female	31,976	42.1
Total no. of drivers (sex known)	75,921	
Sex not stated	924	
GRAND TOTAL	76,845	

Driver Age	Number of Drivers	Percent
15 & younger	474	0.6
16	3,324	4.5
17	3,834	5.2
18	3,926	5.3
19	3,689	5.0
20-24	13,955	18.9
25-34	16,635	22.6
35-44	9,541	13.0
45-54	5,973	8.1
55-64	5,515	7.5
65-74	4,060	5.5
75 & older	2,739	3.7
Total no. of drivers (age known)	73,665	
Age not stated	3,180	
GRAND TOTAL	76,845	

Note: In 1984 automobile accidents, 66.6 percent of the automobile occupants who were killed or injured were not wearing seat belts. 4.2 percent were wearing seat belts, and seat belt use was unknown or unreported for 29.2 percent of those killed or injured.

The Machine

Vehicle Action	Number of Vehicles	Percent
Going straight	50,746	64.0
Turning left	8,792	11.1
Turning right	2,948	3.7
Backing	1,693	2.1
Stopped in traffic	3,791	4.8
Parked	4,963	6.3
Making U-turn	192	
Passing	929	
Changing lanes	1,166	
Merging	462	8.0
Parking	136	
Slowing-stopping	2,228	
Unattended moving vehicle	87	
Other	1,176	
Total no. of vehicles (action stated)	79,309	
Action not stated	2,586	
GRAND TOTAL	81,895	

Note: Total number of vehicles includes parked automobiles involved in accidents.



Vehicle Defect	Number of Vehicles	Percent
None	52,802	98.6
Brakes	207	1.4
Lights	58	
Steering	50	
Wipers	18	
Tires	195	
Trailer hitch	6	
Other	229	
Total no. of vehicles (defect stated)	53,565	
Defect not stated	28,330	
GRAND TOTAL	81,895	

The Environment

Light	Number of Accidents	Percent
Dawn	712	1.3
Daylight	34,632	65.1
Dusk	1,913	3.6
Darkness (road lighted)	8,978	16.9
Darkness (road unlighted)	6,947	13.1
Total no. of accidents (light stated)	53,182	
Light not stated	832	
GRAND TOTAL	54,014	

Note: Figures indicate number of accidents involving automobiles occurring under the conditions indicated.

Weather	Number of Accidents	Percent
Clear	32,173	59.6
Cloudy	13,544	25.1
Fog	1,028	1.9
Mist	1,692	3.1
Rain	3,340	6.2
Sleet/hail	451	0.8
Snow	2,417	4.5
Strong wind	564	1.0
Other	158	0.3

Note: Some accident reports listed more than one type of weather condition. The percentage listed for each weather condition is based on the total number of accidents for this type of vehicle.

Fixed Object Struck	Vehicles Striking Objects	Percent
Bridge/overpass	486	4.8
Underpass/bridge support	34	0.3
Building	287	2.8
Culvert	246	2.4
Curb	456	4.5
Ditch	2,639	26.0
Island/raised median	128	1.3
Embankment/retaining wall	268	2.6
Fence	674	6.6
Guardrail	458	4.5
Light pole	794	7.8
Sign post	699	6.9
Tree or shrubbery	694	6.8
Utility pole	861	8.5
Other pole or support	249	2.5
Mailbox	199	2.0
Impact attenuator	64	0.6
Other	927	9.1

12.4% of automobiles involved in accidents struck fixed objects.

Note: Impact attenuators are crash-cushioning devices.

Traffic Controls	Number of Accidents	Percent
No controls	36,798	68.3
Traffic signals	7,668	14.2
Stop sign	7,049	13.1
Yield sign	578	4.4
No passing zone (marked)	416	
R.R. warning sign	62	
R.R. automatic signal	55	
R.R. crossing gate	19	
Other	1,266	
Total no. of accidents (control stated)	53,911	
Control not stated	103	
GRAND TOTAL	54,014	

Iowa Accidents Involving

Automobiles/Pickups With Trailers Or Campers

In 1984 there were:

2 occupants of automobiles/pickups with trailers or campers killed

127 occupants of automobiles/pickups with trailers or campers injured

685 accidents involving automobiles/pickups with trailers or campers

3 fatal accidents involving automobiles/pickups with trailers or campers

173 personal injury accidents involving automobiles/pickups with trailers or campers

509 property damage accidents involving automobiles/pickups with trailers or campers

The Driver

Driver Action/ Contributing Circumstances	Number of Drivers	Percent
Ran traffic control	18	2.6
Improper passing	6	0.9
Left of center, not passing	8	1.2
Failure to yield	35	5.1
Wrong way, one-way road	0	--
Speed too fast	26	3.8
Drag racing	0	--
Improper turn	6	0.9
Improper lane change	6	0.9
Following too close	11	1.6
Improper or no signal	9	1.3
Disregarded R.R. signal	0	--
Disregarded warning signal	1	0.1
Reckless driving	4	0.6
Improper backing	5	0.7
Illegal or improper parking	1	0.1
Failure to have control	63	9.2
Lights not on	0	--
Inattentive/distracted	9	1.3
Confused/inexperienced	5	0.7
Vision obscured	34	4.9
Oversized vehicle	2	0.3
Other	47	6.8

Note: From 0-2 actions/circumstances are listed for each driver involved in an accident

Driver Condition	Number of Drivers	Percent
Apparently normal	649	96.0
Drinking - impaired	11	1.6
Drinking - not impaired	6	0.9
Drugs	0	--
Physical defect	1	0.1
Fatigued	2	0.3
Apparently asleep	3	0.4
Ill	1	0.1
Under medication	0	--
Infirmities of age	2	0.3
Other	1	0.1
Total no. of drivers (condition stated)	676	
Condition not stated	12	
GRAND TOTAL	688	

Driver Sex	Number of Drivers	Percent
Male	566	83.0
Female	116	17.0
Total no. of drivers (sex known)	682	
Sex not stated	6	
GRAND TOTAL	688	

Driver Age	Number of Drivers	Percent
15 & younger	0	--
16	7	1.1
17	16	2.4
18	20	3.0
19	22	3.3
20-24	93	14.1
25-34	184	27.8
35-44	120	18.2
45-54	81	12.3
55-64	62	9.4
65-74	46	7.0
75 & older	10	1.5
Total no. of drivers (age known)	661	
Age not stated	27	
GRAND TOTAL	688	

Note: In 1984 automobile/pickup with trailer or camper accidents, 68.2 percent of the automobile/pickup with trailer or camper occupants who were killed or injured were not wearing seat belts, 3.1 percent were wearing seat belts, and seat belt use was unknown or unreported for 28.7 percent of those killed or injured.

The Machine

Vehicle Action	Number of Vehicles	Percent
Going straight	471	66.9
Turning left	66	9.4
Turning right	36	5.1
Backing	15	2.1
Stopped in traffic	17	2.4
Parked	29	4.1
Making U-turn	1	
Passing	10	
Changing lanes	10	
Merging	5	9.9
Parking	0	
Slowing-stopping	29	
Unattended moving vehicle	0	
Other	15	
Total no. of vehicles (action stated)	704	
Action not stated	13	
GRAND TOTAL	717	

Note: Total number of vehicles includes parked automobiles/pickups with trailers or campers.

Automobiles/Pickups With Trailers or Campers



Vehicle Defect	Number of Vehicles	Percent
None	500	91.6
Brakes	5	8.4
Lights	3	
Steering	1	
Wipers	0	
Tires	8	
Trailer hitch	17	
Other	12	
Total no. of vehicles (defect stated)	546	
Defect not stated	171	
GRAND TOTAL	717	

The Environment

Light	Number of Accidents	Percent
Dawn	7	1.0
Daylight	505	74.0
Dusk	28	4.1
Darkness (road lighted)	60	8.8
Darkness (road unlighted)	82	12.0
Total no. of accidents (light stated)	682	
Light not stated	3	
GRAND TOTAL	685	

Note: Figures indicate number of accidents involving automobiles/pickups with trailers or campers occurring under the conditions indicated.

Weather	Number of Accidents	Percent
Clear	419	61.2
Cloudy	171	25.0
Fog	16	2.3
Mist	16	2.3
Rain	53	7.7
Sleet/hail	9	1.3
Snow	29	4.2
Strong wind	11	1.6
Other	3	0.4

Note: Some accident reports listed more than one type of weather condition. The percentage listed for each weather condition is based on the total number of accidents for this type of vehicle.

Fixed Object Struck	Vehicles Striking Object	Percent
Bridge/overpass	8	7.3
Underpass/bridge support	1	0.9
Building	0	--
Culvert	2	1.8
Curb	3	2.7
Ditch	45	40.9
Island/raised median	0	--
Embankment/retaining wall	1	0.9
Fence	5	4.5
Guardrail	5	4.5
Light pole	7	6.4
Sign post	13	11.8
Tree or shrubbery	2	1.8
Utility pole	2	1.8
Other pole or support	1	0.9
Mailbox	4	3.6
Impact attenuator	0	--
Other	11	10.0

15.3% of automobiles or pickups with trailers or campers involved in accidents struck fixed objects.

Note: Impact attenuators are crash-cushioning devices.

Traffic Controls	Number of Accidents	Percent
No controls	512	75.0
Traffic signals	70	10.2
Stop sign	56	8.2
Yield sign	2	6.6
No passing zone (marked)	12	
R.R. warning sign	0	
R.R. automatic signal	0	
R.R. crossing gate	0	
Other	31	
Total no. of accidents (control stated)	683	
Control not stated	2	
GRAND TOTAL	685	

Iowa Accidents Involving Buses

In 1984 there were:

- 0 bus occupants killed
- 30 bus occupants injured
- 219 accidents involving buses
 - 1 fatal accident involving buses
 - 48 personal injury accidents involving buses
 - 170 property damage accidents involving buses

The Driver

Driver Action/ Contributing Circumstances	Number of Drivers	Percent
Ran traffic control	1	0.5
Improper passing	0	--
Left of center, not passing	1	0.5
Failure to yield	7	3.2
Wrong way, one-way road	0	--
Speed too fast	3	1.4
Drag racing	0	--
Improper turn	5	2.3
Improper lane change	1	0.5
Following too close	2	0.9
Improper or no signal	0	--
Disregarded R.R. signal	0	--
Disregarded warning signal	0	--
Reckless driving	0	--
Improper backing	5	2.3
Illegal or improper parking	0	--
Failure to have control	6	2.8
Lights not on	0	--
Inattentive/distracted	4	1.9
Confused/inexperienced	1	0.5
Vision obscured	12	5.6
Oversized vehicle	2	0.9
Other	6	2.8

Note: From 0-2 actions/circumstances are listed for each driver involved in an accident.

Driver Condition	Number of Drivers	Percent
Apparently normal	211	99.1
Drinking - impaired	1	0.5
Drinking - not impaired	0	--
Drugs	0	--
Physical defect	0	--
Fatigued	1	0.5
Apparently asleep	0	--
Ill	0	--
Under medication	0	--
Infirmities of age	0	--
Other	0	--
Total no. of drivers (condition stated)	213	
Condition not stated	3	
GRAND TOTAL	216	

Driver Sex	Number of Drivers	Percent
Male	169	81.3
Female	39	18.8
Total no. of drivers (sex known)	208	
Sex not stated	8	
GRAND TOTAL	216	

Driver Age	Number of Drivers	Percent
15 & younger	1	0.5
16	0	--
17	0	--
18	0	--
19	1	0.5
20-24	19	9.3
25-34	67	32.8
35-44	37	18.1
45-54	36	17.6
55-64	37	18.1
65-74	5	2.5
75 & older	1	0.5
Total no. of drivers (age known)	204	
Age not stated	12	
GRAND TOTAL	216	

Note: In 1984 bus accidents, 66.7 percent of the bus occupants who were killed or injured were not wearing seat belts, 0.0 percent were wearing seat belts, and seat belt use was unknown or unreported for 33.3 percent of those killed or injured.

The Machine

Vehicle Action	Number of Vehicles	Percent
Going straight	116	53.7
Turning left	18	8.3
Turning right	16	7.4
Backing	10	4.6
Stopped in traffic	28	13.0
Parked	3	1.4
Making U-turn	0	
Passing	0	
Changing lanes	6	
Merging	2	
Parking	2	
Slowing-stopping	9	
Unattended moving vehicle	0	
Other	6	
Total no. of vehicles (action stated)	216	
Action not stated	3	
GRAND TOTAL	219	

Note: Total number of vehicles includes parked buses involved in accidents.



Vehicle Defect	Number of Vehicles	Percent
None	160	98.8
Brakes	0	
Lights	0	
Steering	0	
Wipers	0	
Tires	0	
Trailer hitch	0	
Other	2	1.2
Total no. of vehicles (defect stated)	162	
Defect not stated	57	
GRAND TOTAL	219	

The Environment

Light	Number of Accidents	Percent
Dawn	2	0.9
Daylight	180	83.3
Dusk	9	4.2
Darkness (road lighted)	24	11.1
Darkness (road unlighted)	1	0.5
Total no. of accidents (light stated)	216	
Light not stated	3	
GRAND TOTAL	219	

Note: Figures indicate number of accidents involving buses occurring under the conditions indicated.

Weather	Number of Accidents	Percent
Clear	127	58.0
Cloudy	55	25.1
Fog	4	1.8
Mist	4	1.8
Rain	12	5.5
Sleet/hail	2	0.9
Snow	23	10.5
Strong wind	1	0.5
Other	3	1.4

Note: Some accident reports listed more than one type of weather condition. The percentage listed for each weather condition is based on the total number of accidents for this type of vehicle.

Fixed Object Struck	Vehicles Striking Object	Percent
Bridge/overpass	0	--
Underpass/bridge support	0	--
Building	1	7.7
Culvert	0	--
Curb	1	7.7
Ditch	0	--
Island/raised median	0	--
Embankment/retaining wall	0	--
Fence	0	--
Guardrail	1	7.7
Light pole	2	15.4
Sign post	1	7.7
Tree or shrubbery	4	30.8
Utility pole	1	7.7
Other pole or support	0	--
Mailbox	0	--
Impact attenuator	0	--
Other	2	15.4

5.9% of buses involved in accidents struck fixed objects.

Note: Impact attenuators are crash-cushioning devices.

Traffic Controls	Number of Accidents	Percent
No controls	139	63.8
Traffic signals	48	22.0
Stop sign	28	12.8
Yield sign	0	1.4
No passing zone (marked)	0	
R.R. warning sign	1	
R.R. automatic signal	0	
R.R. crossing gate	0	
Other	2	
Total no. of accidents (control stated)	218	
Control not stated	1	
GRAND TOTAL	219	

Iowa

Accidents Involving

School Buses

In 1984 there were:

- 1 school bus occupant killed
- 90 school bus occupants injured
- 207 accidents involving school buses
- 3 fatal accidents involving a school bus
- 62 personal injury accidents involving school buses
- 142 property damage accidents involving school buses

5 persons were killed in school bus accidents. Of this number, 4 were not school bus occupants.

The Driver

Driver Action/ Contributing Circumstances	Number of Drivers	Percent
Ran traffic control	0	--
Improper passing	1	0.5
Left of center, not passing	1	0.5
Failure to yield	9	4.3
Wrong way, one-way road	0	--
Speed too fast	3	1.4
Drag racing	0	--
Improper turn	2	1.0
Improper lane change	1	0.5
Following too close	2	1.0
Improper or no signal	2	1.0
Disregarded R.R. signal	0	--
Disregarded warning signal	0	--
Reckless driving	0	--
Improper backing	8	3.8
Illegal or improper parking	2	1.0
Failure to have control	9	4.3
Lights not on	0	--
Inattentive/distracted	3	1.4
Confused/inexperienced	2	1.0
Vision obscured	16	7.7
Oversized vehicle	0	--
Other	7	3.4

Note: From 0-2 actions/circumstances are listed for each driver involved in an accident.

Driver Condition	Number of Drivers	Percent
Apparently normal	207	100.0
Drinking - impaired	0	--
Drinking - not impaired	0	--
Drugs	0	--
Physical defect	0	--
Fatigued	0	--
Apparently asleep	0	--
Ill	0	--
Under medication	0	--
Infirmities of age	0	--
Other	0	--
Total no. of drivers (condition stated)	207	
Condition not stated	1	
GRAND TOTAL	208	

Driver Sex	Number of Drivers	Percent
Male	122	59.5
Female	83	40.5
Total no. of drivers (sex known)	205	
Sex not stated	3	
GRAND TOTAL	208	

Driver Age	Number of Drivers	Percent
15 & younger	0	--
16	0	--
17	0	--
18	1	0.5
19	1	0.5
20-24	10	5.0
25-34	53	26.4
35-44	46	22.9
45-54	41	20.4
55-64	38	18.9
65-74	10	5.0
75 & older	1	0.5
Total no. of drivers (age known)	201	
Age not stated	7	
GRAND TOTAL	208	

Note: In 1984 school bus accidents, 61.5 percent of the school bus occupants who were killed or injured were not wearing seat belts, 2.2 percent were wearing seat belts, and seat belt use was unknown or unreported for 36.3 percent of those killed or injured.

The Machine

Vehicle Action	Number of Vehicles	Percent
Going straight	106	52.7
Turning left	21	10.4
Turning right	15	7.5
Backing	16	8.0
Stopped in traffic	25	12.4
Parked	3	1.5
Making U-turn	0	
Passing	2	
Changing lanes	2	
Merging	0	
Parking	2	
Slowing-stopping	8	
Unattended moving vehicle	0	
Other	1	
Total no. of vehicles (action stated)	201	
Action not stated	10	
GRAND TOTAL	211	

Note: Total number of vehicles includes parked school buses involved in accidents.



Vehicle Defect	Number of Vehicles	Percent
None	132	98.5
Brakes	0	1.5
Lights	1	
Steering	0	
Wipers	0	
Tires	0	
Trailer hitch	0	
Other	9	
Total no. of vehicles (defect stated)	134	
Defect not stated	77	
GRAND TOTAL	211	

The Environment

Light	Number of Accidents	Percent
Dawn	3	1.5
Daylight	191	94.1
Dusk	1	0.5
Darkness (road lighted)	6	3.0
Darkness (road unlighted)	2	1.0
Total no. of accidents (light stated)	203	
Light not stated	4	
GRAND TOTAL	207	

Note: Figures indicate number of accidents involving school buses occurring under the conditions indicated.

Weather	Number of Accidents	Percent
Clear	119	57.5
Cloudy	49	23.7
Fog	7	3.4
Mist	9	4.3
Rain	13	6.3
Sleet/hail	1	0.5
Snow	12	5.8
Strong wind	2	1.0
Other	0	--

Note: Some accident reports listed more than one type of weather condition. The percentage listed for each weather condition is based on the total number of accidents for this type of vehicle.

Fixed Object Struck	Vehicles Striking Object	Percent
Bridge/overpass	1	5.0
Underpass/bridge support	0	--
Building	0	--
Culvert	0	--
Curb	1	5.0
Ditch	8	40.0
Island/raised median	0	--
Embankment/retaining wall	0	--
Fence	1	5.0
Guardrail	0	--
Light pole	2	10.0
Sign post	1	5.0
Tree or shrubbery	1	5.0
Utility pole	0	--
Other pole or support	0	--
Mailbox	0	--
Impact attenuator	0	--
Other	5	25.0

9.5% of school buses involved in accidents struck fixed objects

Note: Impact attenuators are crash-cushioning devices

Traffic Controls	Number of Accidents	Percent
No controls	148	71.8
Traffic signals	19	9.2
Stop sign	23	11.2
Yield sign	1	7.8
No passing zone (marked)	0	
R.R. warning sign	1	
R.R. automatic signal	2	
R.R. crossing gate	0	
Other	12	
Total no. of accidents (control stated)	206	
Control not stated	1	
GRAND TOTAL	207	

Iowa Accidents Involving

Bicycles

In 1984 there were:

- 10 bicycle riders killed in bicycle/motor vehicle accidents
- 637 bicycle riders injured in bicycle/motor vehicle accidents
- 661 accidents involving bicycles/motor vehicles
 - 10 fatal accidents involving bicycles/motor vehicles
 - 635 personal injury accidents involving bicycles/motor vehicles
 - 16 property damage accidents involving bicycles/motor vehicles

The Driver Of Motor Vehicle Involved

Driver Action/ Contributing Circumstances	Number of Drivers	Percent
Ran traffic control	9	1.4
Improper passing	4	0.6
Left of center, not passing	2	0.3
Failure to yield	64	9.7
Wrong way, one-way road	1	0.2
Speed too fast	8	1.2
Drag racing	0	--
Improper turn	2	0.3
Improper lane change	0	--
Following too close	2	0.3
Improper or no signal	0	--
Disregarded R.R. signal	0	--
Disregarded warning signal	0	--
Reckless driving	3	0.5
Improper backing	2	0.3
Illegal or improper parking	0	--
Failure to have control	9	1.4
Lights not on	0	--
Inattentive/distracted	22	3.3
Confused/inexperienced	5	0.8
Vision obscured	67	10.2
Oversized vehicle	0	--
Other	12	1.8

0056Note: From 0-2 actions/circumstances are listed for each driver involved in an accident

Driver Condition	Number of Drivers	Percent
Apparently normal	607	96.8
Drinking - impaired	9	1.4
Drinking - not impaired	3	0.5
Drugs	0	--
Physical defect	2	0.3
Fatigued	0	--
Apparently asleep	0	--
Ill	0	--
Under medication	0	--
Infirmities of age	5	0.8
Other	1	0.2
Total no. of drivers (condition stated)	627	
Condition not stated	31	
GRAND TOTAL	658	

Driver Sex	Number of Drivers	Percent
Male	372	60.0
Female	248	40.0
Total no. of drivers (sex known)	620	
Sex not stated	38	
GRAND TOTAL	658	

Driver Age	Number of Drivers	Percent
15 & younger	11	1.8
16	22	3.6
17	26	4.2
18	27	4.4
19	24	3.9
20-24	89	14.4
25-34	146	23.7
35-44	87	14.1
45-54	66	10.7
55-64	52	8.4
65-74	40	6.5
75 & older	27	4.4
Total no. of drivers (age known)	617	
Age not stated	41	
GRAND TOTAL	658	

The Motor Vehicle

Vehicle Action	Number of Vehicles	Percent
Going straight	454	69.0
Turning left	89	13.5
Turning right	58	8.8
Backing	8	1.2
Stopped in traffic	8	1.2
Parked	8	1.2
Making U-turn	1	
Passing	13	
Changing lanes	2	
Merging	2	5.0
Parking	3	
Slowing-stopping	6	
Unattended moving vehicle	0	
Other	6	
Total no. of vehicles (action stated)	658	
Action not stated	8	
GRAND TOTAL	666	

Note: Total number of vehicles includes parked motor vehicles involved in bicycle/motor vehicle accidents.



Type of Motor Vehicle Involved in Collision	Number of Vehicles	Percent
Automobile	508	78.4
Automobile/pickup with trailer or camper	5	0.8
Bus	2	0.3
School bus	0	--
Moped	8	1.2
Motorcycle	16	2.5
Farm vehicle	0	--
Motor home	0	--
Recreational vehicle	2	0.3
Panel/van/pickup	99	15.3
Straight truck	3	0.5
Tow/maintenance/construction vehicle	2	0.3
Truck tractor	0	--
Truck tractor with trailer	3	0.5
Other	0	--
Total no. of vehicles (vehicle type stated)	648	
Type not stated	18	
GRAND TOTAL	666	

The Environment

Light	Number of Accidents	Percent
Dawn	6	0.9
Daylight	552	84.0
Dusk	35	5.3
Darkness (road lighted)	50	7.6
Darkness (road unlighted)	14	2.1
Total no. of accidents (light stated)	657	
Light not stated	4	
GRAND TOTAL	661	

Note: Figures indicate number of accidents involving bicycle/motor vehicle collisions occurring under the conditions indicated.

Weather	Number of Accidents	Percent
Clear	497	75.2
Cloudy	139	21.0
Fog	1	0.2
Mist	4	0.6
Rain	18	2.7
Sleet/hail	0	--
Snow	0	--
Strong wind	3	0.5
Other	0	--

Note: Some accident reports listed more than one type of weather condition. The percentages listed for each weather condition is based on the total number of accidents for this type of vehicle.

Traffic Controls	Number of Accidents	Percent
No controls	480	73.2
Traffic signals	82	12.5
Stop sign	81	12.3
Yield sign	5	
No passing zone (marked)	2	
R.R. warning sign	0	2.0
R.R. automatic signal	0	
R.R. crossing gate	0	
Other	6	
Total no. of accidents (control stated)	656	
Control not stated	5	
GRAND TOTAL	661	

The Bicyclist

Bicyclist Sex	Killed	Injured
Male	9	422
Female	1	175
Total no. of bicyclists (sex known)	10	597
Sex not stated		40
GRAND TOTAL	10	637

Bicyclist Age	Killed	Injured
0-4	0	16
5-9	3	140
10-14	4	197
15-19	0	114
20-24	1	72
25-44	2	67
45-64	0	12
65 & older	0	7
Total no. of bicyclists (age known)	10	625
Age not stated	0	12
GRAND TOTAL	10	637

Iowa

Accidents Involving

Mopeds

In 1984 there were:

- 3 moped operators or passengers killed
- 472 moped operators or passengers injured
- 504 accidents involving mopeds
 - 3 fatal accidents involving mopeds
 - 478 personal injury accidents involving mopeds
 - 23 property damage accidents involving mopeds

The Operator

Operator Action/ Contributing Circumstances	Number of Operators	Percent
Ran traffic control	11	2.1
Improper passing	2	0.4
Left of center, not passing	4	0.8
Failure to yield	30	5.7
Wrong way, one-way road	1	0.2
Speed too fast	12	2.3
Drag racing	1	0.2
Improper turn	3	0.6
Improper lane change	0	--
Following too close	11	2.1
Improper or no signal	2	0.4
Disregarded R.R. signal	0	--
Disregarded warning signal	1	0.2
Reckless driving	4	0.8
Improper backing	0	--
Illegal or improper parking	0	--
Failure to have control	65	12.4
Lights not on	1	0.2
Inattentive/distracted	28	5.3
Confused/inexperienced	35	6.7
Vision obscured	21	4.0
Oversized vehicle	0	--
Other	26	4.9

Note: From 0-2 actions/circumstances are listed for each operator involved in an accident

Operator Condition	Number of Operators	Percent
Apparently normal	495	96.3
Drinking - impaired	12	2.3
Drinking - not impaired	3	0.6
Drugs	0	--
Physical defect	1	0.2
Fatigued	0	--
Apparently asleep	0	--
Ill	0	--
Under medication	0	--
infirmities of age	1	0.2
Other	2	0.4
Total no. of operators (condition stated)	514	
Condition not stated	12	
GRAND TOTAL	526	

Operator Sex	Number of Operators	Percent
Male	356	67.8
Female	169	32.2
Total no. of operators (sex known)	525	
Sex not stated	1	
GRAND TOTAL	526	

Operator Age	Number of Operators	Percent
15 & younger	322	62.5
16	48	9.3
17	27	5.2
18	12	2.3
19	12	2.3
20-24	20	3.9
25-34	28	5.4
35-44	16	3.1
45-54	8	1.6
55-64	13	2.5
65-74	7	1.4
75 & older	2	0.4
Total no. of drivers (age known)	515	
Age not stated	11	
GRAND TOTAL	526	

Note: In 1984 moped accidents, 90.5 percent of the moped riders who were killed or injured were not wearing helmets, 3.8 percent were wearing helmets, and helmet use was unknown or unreported for 5.7 percent of those killed or injured

The Machine

Vehicle Action	Number of Vehicles	Percent
Going straight	391	75.0
Turning left	68	13.1
Turning right	31	6.0
Backing	0	--
Stopped in traffic	3	0.6
Parked	2	0.4
Making U-turn	1	
Passing	4	
Changing lanes	2	
Merging	1	5.0
Parking	1	
Slowing-stopping	11	
Unattended moving vehicle	0	
Other	6	
Total no. of vehicles (action stated)	521	
Action not stated	7	
GRAND TOTAL	528	

Note: Total number of vehicles includes parked mopeds involved in accidents



Vehicle Defect	Number of Vehicles	Percent
None	438	97.8
Brakes	5	2.2
Lights	2	
Steering	0	
Tires	2	
Other	1	
Total no. of vehicles (defect stated)	448	
Defect not stated	80	
GRAND TOTAL	528	

The Environment

Light	Number of Accidents	Percent
Dawn	0	--
Daylight	400	79.8
Dusk	26	5.2
Darkness (road lighted)	48	9.6
Darkness (road unlighted)	27	5.4
Total no. of accidents (light stated)	501	
Light not stated	3	
GRAND TOTAL	504	

Note: Figures indicate number of accidents involving mopeds occurring under the conditions indicated.

Weather	Number of Accidents	Percent
Clear	370	73.4
Cloudy	115	22.8
Fog	3	0.6
Mist	9	1.8
Rain	9	1.8
Sleet/hail	0	--
Snow	0	--
Strong wind	1	0.2
Other	1	0.2

Note: Some accident reports listed more than one type of weather condition. The percentage listed for each weather condition is based on the total number of accidents for this type of vehicle.

Fixed Object Struck	Vehicles Striking Object	Percent
Bridge/overpass	0	--
Underpass/bridge support	0	--
Building	0	--
Culvert	0	--
Curb	9	33.3
Ditch	5	18.5
Island/raised median	0	--
Embankment/retaining wall	0	--
Fence	0	--
Guardrail	0	--
Light pole	3	11.1
Sign post	1	3.7
Tree or shrubbery	2	7.4
Utility pole	2	7.4
Other pole or support	0	--
Mailbox	1	3.7
Impact attenuator	0	--
Other	4	14.8

5.1% of mopeds involved in accidents struck fixed objects

Note: Impact attenuators are crash-cushioning devices.

Traffic Controls	Number of Accidents	Percent
No controls	409	81.2
Traffic signals	43	8.5
Stop sign	42	8.3
Yield sign	5	2.0
No passing zone (marked)	0	
R.R. warning sign	0	
R.R. automatic signal	0	
R.R. crossing gate	0	
Other	5	
Total no. of accidents (control stated)	504	
Control not stated		
GRAND TOTAL	504	

Iowa Accidents Involving Motorcycles

In 1984 there were:

- 44 motorcycle operators or passengers killed
- 2,091 motorcycle operators or passengers injured
- 2,132 accidents involving motorcycles
 - 41 fatal accidents involving motorcycles
 - 1,787 personal injury accidents involving motorcycles
 - 301 property damage accidents involving motorcycles

The Operator

Operator Action/ Contributing Circumstances	Number of Operators	Percent
Ran traffic control	34	1.6
Improper passing	35	1.6
Left of center, not passing	14	0.6
Failure to yield	55	2.5
Wrong way, one-way road	1	*
Speed too fast	156	7.2
Drag racing	5	0.2
Improper turn	7	0.3
Improper lane change	12	0.6
Following too close	32	1.5
Improper or no signal	8	0.4
Disregarded R.R. signal	0	--
Disregarded warning signal	3	0.1
Reckless driving	27	1.2
Improper backing	2	0.1
Illegal or improper parking	3	0.1
Failure to have control	392	18.0
Lights not on	3	0.1
Inattentive/distracted	69	3.2
Confused/inexperienced	66	3.0
Vision obscured	72	3.3
Oversized vehicle	3	0.1
Other	109	5.0

Note: From 0-2 actions, circumstances are listed for each operator involved in an accident

Operator Condition	Number of Operators	Percent
Apparently normal	1,803	86.4
Drinking - impaired	162	7.8
Drinking - not impaired	99	4.7
Drugs	1	0.1
Physical defect	2	0.1
Fatigued	6	0.3
Apparently asleep	3	0.1
Ill	0	--
Under medication	2	0.1
Infirmities of age	1	0.1
Other	8	0.4
Total no. of operators (condition stated)	2,087	
Condition not stated	92	
GRAND TOTAL	2,179	

Operator Sex	Number of Operators	Percent
Male	2,066	95.6
Female	96	4.4
Total no. of operators (sex known)	2,162	
Sex not stated	17	
GRAND TOTAL	2,179	

Operator Age	Number of Operators	Percent
15 & younger	54	2.5
16	50	2.3
17	79	3.7
18	180	8.4
19	197	9.2
20-24	638	29.9
25-34	619	29.0
35-44	194	9.1
45-54	81	3.8
55-64	25	1.2
65-74	13	0.6
75 & older	5	0.2
Total no. of operators (age known)	2,135	
Age not stated	44	
GRAND TOTAL	2,179	

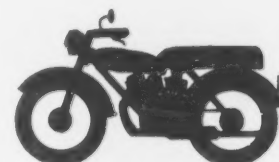
Note: In 1984 motorcycle accidents, 76.2 percent of the motorcycle riders who were killed or injured were not wearing helmets, 13.6 percent were wearing helmets, and helmet use was unknown or unreported for 10.3 percent of those killed or injured.

The Machine

Vehicle Action	Number of Vehicles	Percent
Going straight	1,688	77.8
Turning left	158	7.3
Turning right	76	3.5
Backing	6	0.3
Stopped in traffic	38	1.8
Parked	23	1.1
Making U-turn	4	
Passing	63	
Changing lanes	29	
Merging	5	8.4
Parking	0	
Slowing-stopping	29	
Unattended moving vehicle	0	
Other	52	
Total no. of vehicles (action stated)	2,171	
Action not stated	31	
GRAND TOTAL	2,202	

Note: Total number of vehicles includes parked motorcycles involved in accidents

Motorcycles



Vehicle Defect	Number of Vehicles	Percent
None	1,697	97.5
Brakes	4	2.5
Lights	6	
Steering	2	
Tires	23	
Other	9	
Total no. of vehicles (defect stated)	1,741	
Defect not stated	461	
GRAND TOTAL	2,202	

The Environment

Light	Number of Accidents	Percent
Dawn	14	0.7
Daylight	1,362	64.1
Dusk	86	4.0
Darkness (road lighted)	427	20.1
Darkness (road unlighted)	235	11.1
Total no. of accidents (light stated)	2,124	
Light not stated	8	
GRAND TOTAL	2,132	

Note: Figures indicate number of accidents involving motorcycles occurring under the conditions indicated.

Weather	Number of Accidents	Percent
Clear	1,658	77.8
Cloudy	399	18.7
Fog	8	0.4
Mist	15	0.7
Rain	47	2.2
Sleet/hail	0	--
Snow	2	0.1
Strong wind	8	0.4
Other	2	0.1

Note: Some accident reports listed more than one type of weather condition. The percentage listed for each weather condition is based on the total number of accidents for this type of vehicle.

Fixed Object Struck	Vehicles Striking Object	Percent
Bridge/overpass	7	1.7
Underpass/bridge support	0	--
Building	8	2.0
Culvert	8	2.0
Curb	83	20.5
Ditch	112	27.7
Island/raised median	17	4.2
Embankment/retaining wall	10	2.5
Fence	17	4.2
Guardrail	11	2.7
Light pole	9	2.2
Sign post	20	5.0
Tree or shrubbery	9	2.2
Utility pole	12	3.0
Other pole or support	10	2.5
Mailbox	11	2.7
Impact attenuator	2	0.5
Other	58	14.4

18.3% of motorcycles involved in accidents struck fixed objects.

Note: Impact attenuators are crash-cushioning devices.

Traffic Controls	Number of Accidents	Percent
No controls	1,684	79.1
Traffic signals	233	10.9
Stop sign	89	4.2
Yield sign	11	5.8
No passing zone (marked)	26	
R.R. warning sign	4	
R.R. automatic signal	3	
R.R. crossing gate	0	
Other	80	
Total no. of accidents (control stated)	2,130	
Control not stated	2	
GRAND TOTAL	2,132	

Iowa Accidents Involving Farm Vehicles

In 1984 there were:

- 12 farm vehicle occupants killed
- 50 farm vehicle occupants injured
- 338 accidents involving farm vehicles
 - 17 fatal accidents involving farm vehicles
 - 103 personal injury accidents involving farm vehicles
 - 218 property damage accidents involving farm vehicles

17 persons were killed in farm vehicle accidents. Of this number, 5 (29.4 percent) were not farm vehicle occupants.

The Driver

Driver Action/ Contributing Circumstances	Number of Drivers	Percent
Ran traffic control	2	0.6
Improper passing	3	0.9
Left of center, not passing	10	3.0
Failure to yield	33	10.0
Wrong way, one-way road	0	--
Speed too fast	5	1.5
Drag racing	0	--
Improper turn	9	2.7
Improper lane change	3	0.9
Following too close	2	0.6
Improper or no signal	22	6.7
Disregarded R.R. signal	0	--
Disregarded warning signal	0	--
Reckless driving	0	--
Improper backing	0	--
Illegal or improper parking	2	0.6
Failure to have control	18	5.5
Lights not on	3	0.9
Inattentive/distracted	13	3.9
Confused/inexperienced	9	2.7
Vision obscured	40	12.1
Oversized vehicle	7	2.1
Other	27	8.2

Note: From 0-2 actions/circumstances are listed for each driver involved in an accident

Driver Condition	Number of Drivers	Percent
Apparently normal	316	98.1
Drinking - impaired	2	0.6
Drinking - not impaired	1	0.3
Drugs	0	--
Physical defect	0	--
Fatigued	1	0.3
Apparently asleep	0	--
Ill	0	--
Under medication	1	0.3
Infirmities of age	0	--
Other	1	0.3
Total no. of drivers (condition stated)	322	
Condition not stated	8	
GRAND TOTAL	330	

Driver Sex	Number of Drivers	Percent
Male	298	92.3
Female	25	7.7
Total no. of drivers (sex known)	323	
Sex not stated	7	
GRAND TOTAL	330	

Driver Age	Number of Drivers	Percent
15 & younger	14	4.4
16	8	2.5
17	4	1.3
18	8	2.5
19	5	1.6
20-24	50	15.8
25-34	65	20.6
35-44	50	15.8
45-54	33	10.4
55-64	51	16.1
65-74	22	7.0
75 & older	6	1.9
Total no. of drivers (age known)	316	
Age not stated	14	
GRAND TOTAL	330	

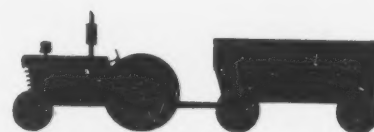
The Machine

Vehicle Action	Number of Vehicles	Percent
Going straight	150	45.5
Turning left	110	33.3
Turning right	19	5.8
Backing	4	1.2
Stopped in traffic	5	1.5
Parked	11	3.3
Making U-turn	5	
Passing	4	
Changing lanes	4	
Merging	1	9.4
Parking	0	
Slowing-stopping	6	
Unattended moving vehicle	0	
Other	11	
Total no. of vehicles (action stated)	330	
Action not stated	11	
GRAND TOTAL	341	

Note: Total number of vehicles includes parked farm vehicles involved in accidents.

Farm Vehicles

Vehicle Defect	Number of Vehicles	Percent
None	265	93.3
Brakes	5	6.7
Lights	8	
Steering	0	
Wipers	0	
Tires	0	
Trailer hitch	1	
Other	5	
Total no. of vehicles (defect stated)	284	
Defect not stated	57	
GRAND TOTAL	341	



The Environment

Light	Number of Accidents	Percent
Dawn	2	0.6
Daylight	268	79.8
Dusk	15	4.5
Darkness (road lighted)	11	3.3
Darkness (road unlighted)	40	11.9
Total no. of accidents (light stated)	336	
Light not stated	2	
GRAND TOTAL	338	

Note: Figures indicate number of accidents involving farm vehicles occurring under the conditions indicated.

Weather	Number of Accidents	Percent
Clear	233	68.9
Cloudy	83	24.6
Fog	4	1.2
Mist	4	1.2
Rain	10	3.0
Sleet/hail	4	1.2
Snow	2	0.6
Strong wind	1	0.3
Other	1	0.3

Note: Some accident reports listed more than one type of weather condition. The percentage listed for each weather condition is based on the total number of accidents for this type of vehicle.

Fixed Object Struck	Vehicles Striking Object	Percent
Bridge/overpass	3	9.4
Underpass/bridge support	0	--
Building	1	3.1
Culvert	2	6.3
Curb	0	--
Ditch	14	43.8
Island/raised median	0	--
Embankment/retaining wall	0	--
Fence	5	15.6
Guardrail	1	3.1
Light pole	2	6.3
Sign post	1	3.1
Tree or shrubbery	1	3.1
Utility pole	0	--
Other pole or support	1	3.1
Mailbox	0	--
Impact attenuator	0	--
Other	1	3.1

9.4% of farm vehicles involved in accidents struck fixed objects.

Note: Impact attenuators are crash-cushioning devices.

Traffic Controls	Number of Accidents	Percent
No controls	291	86.1
Traffic signals	6	1.8
Stop sign	16	4.8
Yield sign	1	7.4
No passing zone (marked)	8	
R.R. warning sign	1	
R.R. automatic signal	1	
R.R. crossing gate	0	
Other	14	
Total no. of accidents (control stated)	338	
Control not stated		
GRAND TOTAL	338	

Iowa Accidents Involving Motor Homes

In 1984 there were:

- 0 motor home occupants killed
- 19 motor home occupants injured
- 88 accidents involving motor homes
 - 1 fatal accident involving motor homes
 - 22 personal injury accidents involving motor homes
 - 65 property damage accidents involving motor homes

The Driver

Driver Action/ Contributing Circumstances	Number of Drivers	Percent
Ran traffic control	1	1.3
Improper passing	0	--
Left of center, not passing	1	1.3
Failure to yield	3	3.8
Wrong way, one-way road	0	--
Speed too fast	1	1.3
Drag racing	0	--
Improper turn	0	--
Improper lane change	1	1.3
Following too close	1	1.3
Improper or no signal	2	2.5
Disregarded R.R. signal	1	1.3
Disregarded warning signal	0	--
Reckless driving	0	--
Improper backing	0	--
Illegal or improper parking	0	--
Failure to have control	5	6.3
Lights not on	0	--
Inattentive/distracted	2	2.5
Confused/inexperienced	1	1.3
Vision obscured	1	1.3
Oversized vehicle	1	1.3
Other	3	3.8

Note: From 0-2 actions/circumstances are listed for each driver involved in an accident

Driver Condition	Number of Drivers	Percent
Apparently normal	71	92.2
Drinking - impaired	4	5.2
Drinking - not impaired	1	1.3
Drugs	0	--
Physical defect	0	--
Fatigued	0	--
Apparently asleep	0	--
Ill	0	--
Under medication	0	--
Infirmities of age	0	--
Other	1	1.3
Total no. of drivers (condition stated)	77	
Condition not stated	3	
GRAND TOTAL	80	

Driver Sex	Number of Drivers	Percent
Male	63	80.8
Female	15	19.2
Total no. of drivers (sex known)	78	
Sex not stated	2	
GRAND TOTAL	80	

Driver Age	Number of Drivers	Percent
15 & younger	1	1.3
16	0	--
17	0	--
18	1	1.3
19	1	1.3
20-24	4	5.2
25-34	10	13.0
35-44	13	16.9
45-54	12	15.6
55-64	17	22.1
65-74	17	22.1
75 & older	1	1.3
Total no. of drivers (age known)	77	
Age not stated	3	
GRAND TOTAL	80	

Note: In 1984 motor home accidents, 94.7 percent of the motor home occupants who were injured were not wearing seat belts. 0.0 percent were wearing seat belts, and seat belt use was unknown or unreported for 5.3 percent of those killed or injured.

The Machine

Vehicle Action	Number of Vehicles	Percent
Going straight	46	53.5
Turning left	12	14.0
Turning right	5	5.8
Backing	2	2.3
Stopped in traffic	3	3.5
Parked	8	9.3
Making U-turn	0	
Passing	2	
Changing lanes	3	
Merging	1	11.6
Parking	0	
Slowing-stopping	2	
Unattended moving vehicle	0	
Other	2	
Total no. of vehicles (action stated)	86	
Action not stated	2	
GRAND TOTAL	88	

Note: Total number of vehicles includes parked motor homes involved in accidents.



Vehicle Defect	Number of Vehicles	Percent
None	61	95.3
Brakes	0	4.7
Lights	1	
Steering	0	
Wipers	0	
Tires	1	
Trailer hitch	0	
Other	1	
Total no. of vehicles (defect stated)	64	
Defect not stated	24	
GRAND TOTAL	88	

The Environment

Light	Number of Accidents	Percent
Dawn	0	--
Daylight	54	61.4
Dusk	4	4.5
Darkness (road lighted)	14	15.9
Darkness (road unlighted)	16	18.2
Total no. of accidents (light stated)	88	
Light not stated		
GRAND TOTAL	88	

Note: Figures indicate number of accidents involving motor homes occurring under the conditions indicated.

Weather	Number of Accidents	Percent
Clear	52	59.1
Cloudy	24	27.3
Fog	1	1.1
Mist	5	5.7
Rain	3	3.4
Sleet/hail	1	1.1
Snow	3	3.4
Strong wind	1	1.1
Other	0	--

Note: Some accident reports listed more than one type of weather condition. The percentage listed for each weather condition is based on the total number of accidents for this type of vehicle.

Fixed Object Struck	Vehicles Striking Object	Percent
Bridge/overpass	2	14.3
Underpass/bridge support	1	7.1
Building	0	--
Culvert	0	--
Curb	1	7.1
Ditch	5	35.7
Island/raised median	0	--
Embankment/retaining wall	0	--
Fence	1	7.1
Guardrail	0	--
Light pole	0	--
Sign post	1	7.1
Tree or shrubbery	0	--
Utility pole	2	14.3
Other pole or support	0	--
Mailbox	0	--
Impact attenuator	0	--
Other	1	7.1

15.9% of motor homes involved in accidents struck fixed objects.

Note: Impact attenuators are crash-cushioning devices.

Traffic Controls	Number of Accidents	Percent
No controls	69	78.4
Traffic signals	5	5.7
Stop sign	7	8.0
Yield sign	0	8.0
No passing zone (marked)	0	
R.R. warning sign	2	
R.R. automatic signal	0	
R.R. crossing gate	0	
Other	5	
Total no. of accidents (control stated)	88	
Control not stated		
GRAND TOTAL	88	

Iowa

Accidents Involving

Recreational Vehicles

In 1984 there were:

- 4 recreational vehicle occupants killed
- 120 recreational vehicle occupants injured
- 371 accidents involving recreational vehicles
- 5 fatal accidents involving recreational vehicles
- 124 personal injury accidents involving recreational vehicles
- 242 property damage accidents involving recreational vehicles

The Driver

Driver Action/ Contributing Circumstances	Number of Drivers	Percent
Ran traffic control	5	1.5
Improper passing	4	1.2
Left of center, not passing	3	0.9
Failure to yield	17	5.0
Wrong way, one-way road	0	--
Speed too fast	20	5.8
Drag racing	0	--
Improper turn	6	1.7
Improper lane change	3	0.9
Following too close	2	0.6
Improper or no signal	3	0.9
Disregarded R.R. signal	0	--
Disregarded warning signal	0	--
Reckless driving	4	1.2
Improper backing	6	1.7
Illegal or improper parking	1	0.3
Failure to have control	36	10.5
Lights not on	0	--
Inattentive/distracted	9	2.6
Confused/inexperienced	2	0.6
Vision obscured	20	5.8
Oversized vehicle	0	--
Other	23	6.7

Note: From 0-2 actions/circumstances are listed for each driver involved in an accident.

Driver Condition	Number of Drivers	Percent
Apparently normal	307	90.6
Drinking - impaired	7	2.1
Drinking - not impaired	11	3.2
Drugs	0	--
Physical defect	0	--
Fatigued	3	0.9
Apparently asleep	7	2.1
Ill	0	--
Under medication	0	--
Infirmities of age	1	0.3
Other	3	0.9
Total no. of drivers (condition stated)	339	
Condition not stated	4	
GRAND TOTAL	343	

Driver Sex	Number of Drivers	Percent
Male	250	74.2
Female	87	25.8
Total no. of drivers (sex known)	337	
Sex not stated	6	
GRAND TOTAL	343	

Driver Age	Number of Drivers	Percent
15 & younger	7	2.1
16	8	2.4
17	16	4.8
18	13	3.9
19	11	3.3
20-24	40	11.9
25-34	73	21.7
35-44	84	25.0
45-54	41	12.2
55-64	20	6.0
65-74	15	4.5
75 & older	8	2.4
Total no. of drivers (age known)	336	
Age not stated	7	
GRAND TOTAL	343	

Note: In 1984 recreational vehicle accidents, 72.6 percent of the recreational vehicle occupants who were killed or injured were not wearing seat belts, 1.6 percent were wearing seat belts, and seat belt use was unknown or unreported for 25.8 percent of those killed or injured.

The Machine

Vehicle Action	Number of Vehicles	Percent
Going straight	218	60.1
Turning left	29	8.0
Turning right	12	3.3
Backing	15	4.1
Stopped in traffic	20	5.5
Parked	33	9.1
Making U-turn	1	
Passing	6	
Changing lanes	6	
Merging	3	9.9
Parking	1	
Slowing-stopping	7	
Unattended moving vehicle	1	
Other	11	
Total no. of vehicles (action stated)	363	
Action not stated	14	
GRAND TOTAL	377	

Note: Total number of vehicles includes parked recreational vehicles involved in accidents.

Recreational Vehicles



Vehicle Defect	Number of Vehicles	Percent
None	276	97.9
Brakes	0	2.1
Lights	0	
Steering	1	
Wipers	0	
Tires	0	
Trailer hitch	0	
Other	5	
Total no. of vehicles (defect stated)	282	
Defect not stated	95	
GRAND TOTAL	377	

The Environment

Light	Number of Accidents	Percent
Dawn	4	1.1
Daylight	236	64.0
Dusk	20	5.4
Darkness (road lighted)	58	15.7
Darkness (road unlighted)	51	13.8
Total no. of accidents (light stated)	369	
Light not stated	2	
GRAND TOTAL	371	

Note: Figures indicate number of accidents involving recreational vehicles occurring under the conditions indicated.

Weather	Number of Accidents	Percent
Clear	214	57.7
Cloudy	93	25.1
Fog	8	2.2
Mist	15	4.0
Rain	27	7.3
Sleet/hail	3	0.8
Snow	24	6.5
Strong wind	7	1.9
Other	1	0.3

Note: Some accident reports listed more than one type of weather condition. The percentage listed for each weather condition is based on the total number of accidents for this type of vehicle.

Fixed Object Struck	Vehicles Striking Object	Percent
Bridge/overpass	2	3.0
Underpass/bridge support	1	1.5
Building	3	4.5
Culvert	1	1.5
Curb	4	6.1
Ditch	24	36.4
Island/raised median	1	1.5
Embankment/retaining wall	2	3.0
Fence	2	3.0
Guardrail	3	4.5
Light pole	6	9.1
Sign post	4	6.1
Tree or shrubbery	3	4.5
Utility pole	4	6.1
Other pole or support	1	1.5
Mailbox	0	--
Impact attenuator	0	--
Other	5	7.6

17.5% of recreational vehicles involved in accidents struck fixed objects.

Note: Impact attenuators are crash-cushioning devices.

Traffic Controls	Number of Accidents	Percent
No controls	281	75.9
Traffic signals	41	11.1
Stop sign	26	7.0
Yield sign	1	5.9
No passing zone (marked)	6	
R.R. warning sign	1	
R.R. automatic signal	0	
R.R. crossing gate	0	
Other	14	
Total no. of accidents (control stated)	370	
Control not stated	1	
GRAND TOTAL	371	

Iowa Accidents Involving

Trains

In 1984 there were:

- 7 persons killed in train/motor vehicle accidents
- 66 persons injured in train/motor vehicle accidents
- 112 train/motor vehicle accidents involving 112 trains and 114 vehicles
- 6 fatal accidents involving trains/motor vehicles
- 46 personal injury accidents involving trains/motor vehicles
- 60 property damage accidents involving trains/motor vehicles

(All figures apply to train/motor vehicle accidents at public crossings. Private crossing accident information is not included. All 7 persons killed were motor vehicle drivers, riders or occupants.)

The Driver Of Motor Vehicle Involved

Driver Action/ Contributing Circumstances	Number of Drivers	Percent
Ran traffic control	3	2.7
Improper passing	0	--
Left of center, not passing	0	--
Failure to yield	13	11.7
Wrong way, one-way road	0	--
Speed too fast	5	4.5
Drag racing	0	--
Improper turn	0	--
Improper lane change	0	--
Following too close	0	--
Improper or no signal	0	--
Disregarded R.R. signal	26	23.4
Disregarded warning signal	5	4.5
Reckless driving	0	--
Improper backing	0	--
Illegal or improper parking	0	--
Failure to have control	4	3.6
Lights not on	0	--
Inattentive/distracted	14	12.6
Confused/inexperienced	0	--
Vision obscured	16	14.4
Oversized vehicle	0	--
Other	8	7.2

Note: From 0-2 actions/circumstances are listed for each driver involved in an accident.

Driver Condition	Number of Drivers	Percent
Apparently normal	90	86.5
Drinking - impaired	6	5.8
Drinking - not impaired	6	5.8
Drugs	0	--
Physical defect	1	1.0
Fatigued	0	--
Apparently asleep	0	--
Ill	0	--
Under medication	0	--
Infirmities of age	0	--
Other	1	1.0
Total no. of drivers (condition stated)	104	
Condition not stated	7	
GRAND TOTAL	111	

Driver Sex	Number of Drivers	Percent
Male	84	75.7
Female	27	24.3
Total no. of drivers (sex known)	111	
Sex not stated		
GRAND TOTAL	111	

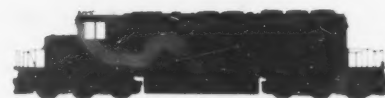
Driver Age	Number of Drivers	Percent
15 & younger	0	--
16	1	0.9
17	3	2.7
18	3	2.7
19	8	7.2
20-24	19	17.1
25-34	27	24.3
35-44	17	15.3
45-54	8	7.2
55-64	14	12.6
65-74	7	6.3
75 & older	4	3.6
Total no. of drivers (age known)	111	
Age not stated		
GRAND TOTAL	111	

Note: In 1984 train/motor vehicle accidents, 78.6 percent of the motor vehicle occupants who were killed or injured were not wearing seat belts, 4.3 percent were wearing seat belts, and seat belt use was unknown or unreported for 17.1 percent of those killed or injured.

The Motor Vehicle

Vehicle Action	Number of Vehicles	Percent
Going straight	99	81.8
Turning left	2	1.8
Turning right	0	--
Backing	1	0.9
Stopped in traffic	5	4.4
Parked	2	1.8
Making U-turn	0	
Passing	0	
Changing lanes	0	
Merging	0	4.4
Parking	0	
Slowing-stopping	2	
Unattended moving vehicle	1	
Other	2	
Total no. of vehicles (action stated)	114	
Action not stated		
GRAND TOTAL	114	

Note: Total number of vehicles includes parked motor vehicles involved in train/motor vehicle accidents.



Vehicle Defect	Number of Vehicles	Percent
None	95	99.0
Brakes	0	1.0
Lights	0	
Steering	0	
Wipers	0	
Tires	0	
Trailer hitch	0	
Other	1	
Total no. of vehicles (defect stated)	96	
Defect not stated	18	
GRAND TOTAL	114	

Type of Motor Vehicle Involved in Collision	Number of Vehicles	Percent
Automobile	72	63.7
Automobile/pickup with trailer or camper	0	--
Bus	0	--
School bus	1	0.9
Moped	0	--
Motorcycle	1	0.9
Farm vehicle	1	0.9
Motor home	0	--
Recreational vehicle	0	--
Panel/van/pickup	24	21.2
Straight truck	3	2.7
Tow/maintenance/construction vehicles	2	1.8
Truck tractor	1	0.9
Truck tractor with trailer	7	6.2
Other	1	0.9
Total no. of vehicles (vehicle type stated)	113	
Type not stated	1	
GRAND TOTAL	114	

Weather	Number of Accidents	Percent
Clear	80	71.4
Cloudy	22	19.6
Fog	2	1.8
Mist	2	1.8
Rain	4	3.6
Sleet/hail	2	1.8
Snow	3	2.7
Strong wind	1	0.9
Other	0	--

Note: Some accident reports listed more than one type of weather condition. The percentage listed for each weather condition is based on the total number of accidents for this type of vehicle.

The Environment

Light	Number of Accidents	Percent
Dawn	3	2.7
Daylight	71	63.4
Dusk	2	1.8
Darkness (road lighted)	22	19.6
Darkness (road unlighted)	14	12.5
Total no. of accidents (light stated)	112	
Light not stated		
GRAND TOTAL	112	

Traffic Controls	Number of Accidents	Percent
No controls	12	10.7
Traffic signals	1	0.9
Stop sign	8	7.1
Yield sign	0	--
No passing zone (marked)	0	--
R.R. warning sign	36	32.1
R.R. automatic signal	36	32.1
R.R. crossing gate	5	4.5
Other	14	12.5
Total no. of accidents (control stated)	112	
Control not stated		
GRAND TOTAL	112	

Note: Figures indicate number of accidents involving train/motor vehicle collisions occurring under the conditions indicated.

Iowa

Accidents Involving

Panels/Vans/Pickups

In 1984 there were:

- 51 panel/van/pickup occupants killed
- 3,291 panel/van/pickup occupants injured
- 14,781 accidents involving panels/vans/pickups
- 89 fatal accidents involving panels/vans/pickups
- 4,193 personal injury accidents involving panels/vans/pickups
- 10,499 property damage accidents involving panels/vans/pickups

The Driver

Driver Action/ Contributing Circumstances	Number of Drivers	Percent
Ran traffic control	276	1.8
Improper passing	82	0.5
Left of center, not passing	170	1.1
Failure to yield	1,171	7.8
Wrong way, one-way road	8	0.1
Speed too fast	554	3.7
Drag racing	2	*
Improper turn	128	0.9
Improper lane change	151	1.0
Following too close	227	1.5
Improper or no signal	67	0.4
Disregarded R.R. signal	8	0.1
Disregarded warning signal	10	0.1
Reckless driving	74	0.5
Improper backing	233	1.6
Illegal or improper parking	34	0.2
Failure to have control	1,650	11.0
Lights not on	10	0.1
Inattentive/distracted	523	3.5
Confused/inexperienced	136	0.9
Vision obscured	904	6.0
Oversized vehicle	7	*
Other	590	3.9

Note: From 0-2 actions/circumstances are listed for each driver involved in an accident

Driver Condition	Number of Drivers	Percent
Apparently normal	13,331	91.6
Drinking - impaired	618	4.2
Drinking - not impaired	329	2.3
Drugs	7	0.1
Physical defect	22	0.2
Fatigued	53	0.4
Apparently asleep	93	0.6
Ill	14	0.1
Under medication	12	0.1
Infirmities of age	31	0.2
Other	45	0.3
Total no. of drivers (condition stated)	14,555	
Condition not stated	443	
GRAND TOTAL	14,998	

Driver Sex	Number of Drivers	Percent
Male	12,754	86.5
Female	1,997	13.5
Total no. of drivers (sex known)	14,751	
Sex not stated	247	
GRAND TOTAL	14,998	

Driver Age	Number of Drivers	Percent
15 & younger	88	0.6
16	466	3.2
17	479	3.3
18	531	3.7
19	563	3.9
20-24	2,632	18.3
25-34	4,037	28.0
35-44	2,335	16.2
45-54	1,416	9.8
55-64	1,115	7.7
65-74	564	3.9
75 & older	175	1.2
Total no. of drivers (age known)	14,401	
Age not stated	597	
GRAND TOTAL	14,998	

Note: In 1984 panel/van/pickup accidents, 72.9 percent of the panel/van/pickup occupants who were killed or injured were not wearing seat belts. 2.4 percent were wearing seat belts, and seat belt use was unknown or unreported for 24.7 percent of those killed or injured.

The Machine

Vehicle Action	Number of Vehicles	Percent
Going straight	9,732	62.8
Turning left	1,622	10.4
Turning right	587	3.8
Backing	583	3.7
Stopped in traffic	652	4.2
Parked	1,026	6.6
Making U-turn	35	
Passing	180	
Changing lanes	220	
Merging	82	8.4
Parking	39	
Slowing-stopping	437	
Unattended moving vehicle	43	
Other	279	
Total no. of vehicles (action stated)	15,567	
Action not stated	500	
GRAND TOTAL	16,067	

Note: Total number of vehicles includes parked panels/vans/pickups involved in accidents.



Vehicle Defect	Number of Vehicles	Percent
None	11,224	98.0
Brakes	50	2.0
Lights	32	
Steering	19	
Wipers	3	
Tires	50	
Trailer hitch	5	
Other	68	
Total no. of vehicles (defect stated)	11,451	
Defect not stated	4,616	
GRAND TOTAL	16,067	

The Environment

Light	Number of Accidents	Percent
Dawn	192	1.3
Daylight	9,828	67.2
Dusk	487	3.3
Darkness (road lighted)	2,215	15.1
Darkness (road unlighted)	1,899	13.0
Total no. of accidents (light stated)	14,621	
Light not stated	160	
GRAND TOTAL	14,781	

Note: Figures indicate number of accidents involving panels/vans/pickups occurring under the conditions indicated

Weather	Number of Accidents	Percent
Clear	8,616	58.3
Cloudy	3,980	26.9
Fog	294	2.0
Mist	451	3.1
Rain	977	6.6
Sleet/hail	120	0.8
Snow	734	5.0
Strong wind	170	1.2
Other	32	0.2

Note: Some accident reports listed more than one type of weather condition. The percentage listed for each weather condition is based on the total number of accidents for this type of vehicle

Fixed Object Struck	Vehicles Striking Object	Percent
Bridge/overpass	117	4.9
Underpass/bridge support	13	0.5
Building	65	2.7
Culvert	62	2.6
Curb	74	3.1
Ditch	751	31.6
Island/raised median	23	1.0
Embankment/retaining wall	62	2.6
Fence	153	6.4
Guardrail	74	3.1
Light pole	160	6.7
Sign post	143	6.0
Tree or shrubbery	177	7.5
Utility pole	190	8.0
Other pole or support	51	2.1
Mailbox	41	1.7
Impact attenuator	19	0.8
Other	199	8.4

14.8% of panels/vans/pickups involved in accidents struck fixed objects.

Note: Impact attenuators are crash-cushioning devices.

Traffic Controls	Number of Accidents	Percent
No controls	10,877	73.7
Traffic signals	1,828	12.4
Stop sign	1,419	9.6
Yield sign	122	4.3
No passing zone (marked)	118	
R.R. warning sign	19	
R.R. automatic signal	18	
R.R. crossing gate	3	
Other	354	
Total no. of accidents (control stated)	14,758	
Control not stated	23	
GRAND TOTAL	14,781	

Iowa Accidents Involving Straight Trucks

In 1984 there were:

- 2 straight truck occupants killed
- 171 straight truck occupants injured
- 1,526 accidents involving straight trucks
 - 25 fatal accidents involving straight trucks
 - 431 personal injury accidents involving straight trucks
 - 1,070 property damage accidents involving straight trucks

28 persons were killed in straight truck accidents. Of this number 26 (92.9 percent) were not straight truck occupants.

The Driver

Driver Action/ Contributing Circumstances	Number of Drivers	Percent
Ran traffic control	23	1.5
Improper passing	10	0.7
Left of center, not passing	13	0.9
Failure to yield	99	6.6
Wrong way, one-way road	0	--
Speed too fast	33	2.2
Drag racing	0	--
Improper turn	30	2.0
Improper lane change	19	1.3
Following too close	33	2.2
Improper or no signal	14	0.9
Disregarded R.R. signal	0	--
Disregarded warning signal	4	0.3
Reckless driving	3	0.2
Improper backing	51	3.4
Illegal or improper parking	4	0.3
Failure to have control	116	7.8
Lights not on	0	--
Inattentive/distracted	49	3.3
Confused/inexperienced	13	0.9
Vision obscured	113	7.6
Oversized vehicle	9	0.6
Other	88	5.9

Note: From 0-2 actions/circumstances are listed for each driver involved in an accident

Driver Condition	Number of Drivers	Percent
Apparently normal	1,437	97.6
Drinking - impaired	12	0.8
Drinking - not impaired	6	0.4
Drugs	0	--
Physical defect	3	0.2
Fatigued	5	0.3
Apparently asleep	4	0.3
Ill	0	--
Under medication	2	0.1
Infirmities of age	3	0.2
Other	1	0.1
Total no. of drivers (condition stated)	1,473	
Condition not stated	16	
GRAND TOTAL	1,489	

Driver Sex	Number of Drivers	Percent
Male	1,426	96.9
Female	45	3.1
Total no. of drivers (sex known)	1,471	
Sex not stated	18	
GRAND TOTAL	1,489	

Driver Age	Number of Drivers	Percent
15 & younger	1	0.1
16	11	0.8
17	14	1.0
18	17	1.2
19	35	2.4
20-24	299	20.7
25-34	468	32.5
35-44	223	15.5
45-54	161	11.2
55-64	161	11.2
65-74	45	3.1
75 & older	6	0.4
Total no. of drivers (age known)	1,441	
Age not stated	48	
GRAND TOTAL	1,489	

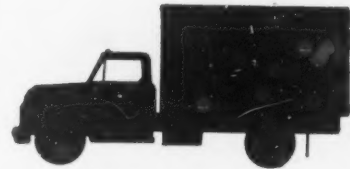
Note: In 1984 straight truck accidents, 69.9 percent of the straight truck occupants who were killed or injured were not wearing seat belts. 4.0 percent were wearing seat belts, and seat belt use was unknown or unreported for 26.0 percent of those killed or injured

The Machine

Vehicle Action	Number of Vehicles	Percent
Going straight	877	57.6
Turning left	162	10.6
Turning right	109	7.2
Backing	96	6.3
Stopped in traffic	51	3.3
Parked	64	4.2
Making U-turn	3	
Passing	25	
Changing lanes	30	
Merging	15	10.8
Parking	4	
Slowing-stopping	56	
Unattended moving vehicle	6	
Other	25	
Total no. of vehicles (action stated)	1,523	
Action not stated	36	
GRAND TOTAL	1,559	

Note: Total number of vehicles includes parked straight trucks involved in accidents.

Straight Trucks



Vehicle Defect	Number of Vehicles	Percent
None	1,168	92.6
Brakes	35	7.4
Lights	12	
Steering	5	
Wipers	1	
Tires	17	
Trailer hitch	2	
Other	22	
Total no. of vehicles (defect stated)	1,262	
Defect not stated	297	
GRAND TOTAL	1,559	

The Environment

Light	Number of Accidents	Percent
Dawn	15	1.0
Daylight	1,332	87.9
Dusk	20	1.3
Darkness (road lighted)	75	4.9
Darkness (road unlighted)	74	4.9
Total no. of accidents (light stated)	1,516	
Light not stated	10	
GRAND TOTAL	1,526	

Note: Figures indicate number of accidents involving straight trucks occurring under the conditions indicated.

Weather	Number of Accidents	Percent
Clear	930	60.9
Cloudy	404	26.5
Fog	31	2.0
Mist	35	2.3
Rain	100	6.6
Sleet/hail	17	1.1
Snow	57	3.7
Strong wind	14	0.9
Other	2	0.1

Note: Some accident reports listed more than one type of weather condition. The percentage listed for each weather condition is based on the total number of accidents for this type of vehicle.

Fixed Object Struck	Vehicles Striking Object	Percent
Bridge/overpass	19	8.8
Underpass/bridge support	1	0.5
Building	7	3.3
Culvert	2	0.9
Curb	5	2.3
Ditch	85	39.5
Island/raised median	2	0.9
Embankment/retaining wall	4	1.9
Fence	8	3.7
Guardrail	8	3.7
Light pole	15	7.0
Sign post	13	6.0
Tree or shrubbery	7	3.3
Utility pole	11	5.1
Other pole or support	7	3.3
Mailbox	3	1.4
Impact attenuator	0	--
Other	18	8.4

13.8% of straight trucks involved in accidents struck fixed objects.

Note: Impact attenuators are crash-cushioning devices.

Traffic Controls	Number of Accidents	Percent
No controls	1,080	70.9
Traffic signals	176	11.5
Stop sign	156	10.2
Yield sign	10	7.3
No passing zone (marked)	20	
R.R. warning sign	4	
R.R. automatic signal	3	
R.R. crossing gate	0	
Other	75	
Total no. of accidents (control stated)	1,524	
Control not stated	2	
GRAND TOTAL	1,526	

Iowa Accidents Involving

Tow/Maintenance/ Construction Vehicles

In 1984 there were:

- 1 tow/maintenance/construction vehicle occupant killed
- 31 tow/maintenance/construction vehicle occupants injured
- 409 accidents involving tow/maintenance/construction vehicles
- 4 fatal accidents involving tow/maintenance/construction vehicles
- 101 personal injury accidents involving tow/maintenance/construction vehicles
- 304 property damage accidents involving tow/maintenance/construction vehicles

4 persons were killed in tow/maintenance/construction vehicle accidents. Of this number 3 (75.0 percent) were not tow/maintenance/construction vehicle occupants.

The Driver

Driver Action/ Contributing Circumstances	Number of Drivers	Percent
Ran traffic control	8	2.1
Improper passing	4	1.1
Left of center, not passing	2	0.5
Failure to yield	16	4.3
Wrong way, one-way road	1	0.3
Speed too fast	14	3.7
Drag racing	0	--
Improper turn	3	0.8
Improper lane change	5	1.3
Following too close	3	0.8
Improper or no signal	4	1.1
Disregarded R R. signal	0	--
Disregarded warning signal	0	--
Reckless driving	0	--
Improper backing	19	5.1
Illegal or improper parking	2	0.5
Failure to have control	19	5.1
Lights not on	0	--
Inattentive/distracted	9	2.4
Confused/inexperienced	2	0.5
Vision obscured	32	8.5
Oversized vehicle	3	0.8
Other	30	8.0

Note: From 0-2 actions/circumstances are listed for each driver involved in an accident.

Driver Condition	Number of Drivers	Percent
Apparently normal	367	98.7
Drinking - impaired	1	0.3
Drinking - not impaired	0	--
Drugs	0	--
Physical defect	1	0.3
Fatigued	2	0.5
Apparently asleep	1	0.3
Ill	0	--
Under medication	0	--
Infirmities of age	0	--
Other	0	--
Total no. of drivers (condition stated)	372	
Condition not stated	4	
GRAND TOTAL	376	

Driver Sex	Number of Drivers	Percent
Male	360	98.1
Female	7	1.9
Total no. of drivers (sex known)	367	
Sex not stated	9	
GRAND TOTAL	376	

Driver Age	Number of Drivers	Percent
15 & younger	0	--
16	0	--
17	0	--
18	4	1.1
19	3	0.8
20-24	49	13.5
25-34	120	33.1
35-44	87	24.0
45-54	49	13.5
55-64	45	12.4
65-74	4	1.1
75 & older	1	0.3
Total no. of drivers (age known)	362	
Age not stated	14	
GRAND TOTAL	376	

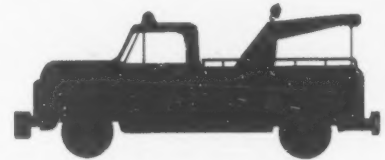
Note: In 1984 tow/maintenance/construction accidents, 87.5 percent of the tow/maintenance/construction vehicle occupants who were killed or injured were not wearing seat belts, 3.1 percent were wearing seat belts, and seat belt use was unknown or unreported for 9.4 percent of those killed or injured.

The Machine

Vehicle Action	Number of Vehicles	Percent
Going straight	209	51.5
Turning left	38	9.4
Turning right	16	3.9
Backing	50	12.3
Stopped in traffic	14	3.4
Parked	39	9.6
Making U-turn	0	
Passing	3	
Changing lanes	6	
Merging	2	9.9
Parking	0	
Slowing-stopping	7	
Unattended moving vehicle	0	
Other	22	
Total no. of vehicles (action stated)	406	
Action not stated	9	
GRAND TOTAL	415	

Note: Total number of vehicles includes parked tow/maintenance/construction vehicles involved in accidents.

Tow/Maintenance/ Construction Vehicles



Vehicle Defect	Number of Vehicles	Percent
None	307	93.0
Brakes	10	7.0
Lights	2	
Steering	3	
Wipers	0	
Tires	1	
Trailer hitch	1	
Other	6	
Total no. of vehicles (defect stated)	330	
Defect not stated	85	
GRAND TOTAL	415	

The Environment

Light	Number of Accidents	Percent
Dawn	1	0.2
Daylight	342	83.6
Dusk	8	2.0
Darkness (road lighted)	38	9.3
Darkness (road unlighted)	20	4.9
Total no. of accidents (light stated)	409	
Light not stated		
GRAND TOTAL	409	

Note: Figures indicate number of accidents involving tow/maintenance/construction vehicles occurring under the conditions indicated.

Weather	Number of Accidents	Percent
Clear	240	58.7
Cloudy	113	27.6
Fog	10	2.4
Mist	11	2.7
Rain	17	4.2
Sleet/hail	10	2.4
Snow	30	7.3
Strong wind	9	2.2
Other	0	--

Note: Some accident reports listed more than one type of weather condition. The percentage listed for each weather condition is based on the total number of accidents for this type of vehicle.

Fixed Object Struck	Vehicles Striking Object	Percent
Bridge/overpass	4	9.3
Underpass/bridge support	0	--
Building	2	4.7
Culvert	0	--
Curb	0	--
Ditch	10	23.3
Island/raised median	0	--
Embankment/retaining wall	3	7.0
Fence	3	7.0
Guardrail	0	--
Light pole	4	9.3
Sign post	3	7.0
Tree or shrubbery	2	4.7
Utility pole	9	20.9
Other pole or support	3	7.0
Mailbox	0	--
Impact attenuator	0	--
Other	0	--

10.4% of tow/maintenance/construction vehicles involved in accidents struck fixed objects.

Note: Impact attenuators are crash-cushioning devices.

Traffic Controls	Number of Accidents	Percent
No controls	297	72.6
Traffic signals	45	11.0
Stop sign	35	8.6
Yield sign	4	7.8
No passing zone (marked)	6	
R.R. warning sign	0	
R.R. automatic signal	2	
R.R. crossing gate	0	
Other	20	
Total no. of accidents (control stated)	409	
Control not stated		
GRAND TOTAL	409	

Iowa Accidents Involving Truck Tractors

In 1984 there were:

- 0 truck tractor occupants killed
- 23 truck tractor occupants injured
- 156 accidents involving truck tractors
 - 0 fatal accidents involving truck tractors
 - 51 personal injury accidents involving truck tractors
 - 105 property damage accidents involving truck tractors

0 persons were killed in truck tractor accidents

The Driver

Driver Action/ Contributing Circumstances	Number of Drivers	Percent
Ran traffic control	3	2.0
Improper passing	3	2.0
Left of center, not passing	0	--
Failure to yield	8	5.4
Wrong way, one-way road	0	--
Speed too fast	4	2.7
Drag racing	0	--
Improper turn	7	4.7
Improper lane change	5	3.4
Following too close	1	0.7
Improper or no signal	0	--
Disregarded R.R. signal	0	--
Disregarded warning signal	1	0.7
Reckless driving	0	--
Improper backing	4	2.7
Illegal or improper parking	0	--
Failure to have control	13	8.7
Lights not on	1	0.7
Inattentive/distracted	6	4.0
Confused/inexperienced	1	0.7
Vision obscured	6	4.0
Oversized vehicle	0	--
Other	8	5.4

Note: From 0-2 actions/circumstances are listed for each driver involved in an accident.

Driver Condition	Number of Drivers	Percent
Apparently normal	142	95.9
Drinking - impaired	4	2.7
Drinking - not impaired	1	0.7
Drugs	0	--
Physical defect	0	--
Fatigued	1	0.7
Apparently asleep	0	--
Ill	0	--
Under medication	0	--
Infirmities of age	0	--
Other	0	--
Total no. of drivers (condition stated)	148	
Condition not stated	1	
GRAND TOTAL	149	

Driver Sex	Number of Drivers	Percent
Male	144	96.6
Female	5	3.4
Total no. of drivers (sex known)	149	
Sex not stated		
GRAND TOTAL	149	

Driver Age	Number of Drivers	Percent
15 & younger	0	--
16	1	0.7
17	2	1.4
18	1	0.7
19	0	--
20-24	16	10.8
25-34	63	42.6
35-44	26	17.6
45-54	26	17.6
55-64	9	6.1
65-74	4	2.7
75 & older	0	--
Total no. of drivers (age known)	148	
Age not stated	1	
GRAND TOTAL	149	

Note: In 1984 truck tractor accidents, 65.2 percent of the truck tractor occupants who were killed or injured were not wearing seat belts. 8.7 percent were wearing seat belts, and seat belt use was unknown or unreported for 26.1 percent of those killed or injured.

The Machine

Vehicle Action	Number of Vehicles	Percent
Going straight	90	59.2
Turning left	6	3.9
Turning right	17	11.2
Backing	8	5.3
Stopped in traffic	3	2.0
Parked	8	5.3
Making U-turn	1	
Passing	4	13.2
Changing lanes	9	
Merging	0	
Parking	0	
Slowing-stopping	6	
Unattended moving vehicle	0	
Other	0	
Total no. of vehicles (action stated)	152	
Action not stated	5	
GRAND TOTAL	157	

Note: Total number of vehicles includes parked truck tractors involved in accidents.



Vehicle Defect	Number of Vehicles	Percent
None	121	98.4
Brakes	1	1.6
Lights	0	
Steering	0	
Wipers	0	
Tires	0	
Trailer hitch	1	
Other	0	
Total no. of vehicles (defect stated)	123	
Defect not stated	34	
GRAND TOTAL	157	

The Environment

Light	Number of Accidents	Percent
Dawn	0	--
Daylight	113	72.4
Dusk	3	1.9
Darkness (road lighted)	15	9.6
Darkness (road unlighted)	25	16.0
Total no. of accidents (light stated)	156	
Light not stated		
GRAND TOTAL	156	

Note: Figures indicate number of accidents involving truck tractors occurring under the conditions indicated.

Fixed Object Struck	Vehicles Striking Object	Percent
Bridge/overpass	1	5.3
Underpass/bridge support	1	5.3
Building	0	--
Culvert	1	5.3
Curb	1	5.3
Ditch	6	31.6
Island/raised median	3	15.8
Embankment/retaining wall	0	--
Fence	1	5.3
Guardrail	0	--
Light pole	0	--
Sign post	0	--
Tree or shrubbery	0	--
Utility pole	2	10.5
Other pole or support	1	5.3
Mailbox	0	--
Impact attenuator	0	--
Other	2	10.5

12.1% of truck tractors involved in accidents struck fixed objects

Note: Impact attenuators are crash-cushioning devices

Weather	Number of Accidents	Percent
Clear	99	63.5
Cloudy	42	26.9
Fog	3	1.9
Mist	4	2.6
Rain	11	7.1
Sleet/hail	1	0.6
Snow	2	1.3
Strong wind	1	0.6
Other	0	--

Note: Some accident reports listed more than one type of weather condition. The percentage listed for each weather condition is based on the total number of accidents for this type of vehicle.

Traffic Controls	Number of Accidents	Percent
No controls	109	69.9
Traffic signals	24	15.4
Stop sign	11	7.1
Yield sign	2	7.7
No passing zone (marked)	3	
R.R. warning sign	0	
R.R. automatic signal	0	
R.R. crossing gate	0	
Other	7	
Total no. of accidents (control stated)	156	
Control not stated	0	
GRAND TOTAL	156	

Iowa Accidents Involving

Truck Tractors With Trailers

In 1984 there were:

- 8 occupants of truck tractors with trailers killed
- 336 occupants of truck tractors with trailers injured
- 2,433 accidents involving truck tractors with trailers
- 49 fatal accidents involving truck tractors with trailers
- 661 personal injury accidents involving truck tractors with trailers
- 1,723 property damage accidents involving truck tractors with trailers

55 persons were killed in truck tractor with trailers accidents. Of this number, 47 (85.5 percent) were not occupants of truck tractor with trailers.

The Driver

Driver Action/ Contributing Circumstances	Number of Drivers	Percent
Ran traffic control	31	1.3
Improper passing	48	1.9
Left of center, not passing	14	0.6
Failure to yield	70	2.8
Wrong way, one-way road	2	0.1
Speed too fast	81	3.3
Drag racing	0	--
Improper turn	49	2.0
Improper lane change	55	2.2
Following too close	48	1.9
Improper or no signal	5	0.2
Disregarded R.R. signal	1	*
Disregarded warning signal	8	0.3
Reckless driving	3	0.1
Improper backing	45	1.8
Illegal or improper parking	6	0.2
Failure to have control	270	10.9
Lights not on	0	--
Inattentive/distracted	73	2.9
Confused/inexperienced	19	0.8
Vision obscured	159	6.4
Oversized vehicle	27	1.1
Other	138	5.6

Note: From 0-2 actions/circumstances are listed for each driver involved in an accident.

Driver Condition	Number of Drivers	Percent
Apparently normal	2,333	96.4
Drinking - impaired	16	0.7
Drinking - not impaired	3	0.1
Drugs	1	*
Physical defect	3	0.1
Fatigued	18	0.7
Apparently asleep	42	1.7
Ill	1	*
Under medication	1	*
Infirmities of age	0	--
Other	3	0.1
Total no. of drivers (condition stated)	2,421	
Condition not stated	56	
GRAND TOTAL	2,477	

Driver Sex	Number of Drivers	Percent
Male	2,408	98.6
Female	34	1.4
Total no. of drivers (sex known)	2,442	
Sex not stated	35	
GRAND TOTAL	2,477	

Driver Age	Number of Drivers	Percent
15 & younger	0	--
16	0	--
17	2	0.1
18	12	0.5
19	15	0.6
20-24	255	10.8
25-34	877	37.1
35-44	576	24.3
45-54	395	16.7
55-64	213	9.0
65-74	18	0.8
75 & older	3	0.1
Total no. of drivers (age known)	2,366	
Age not stated	111	
GRAND TOTAL	2,477	

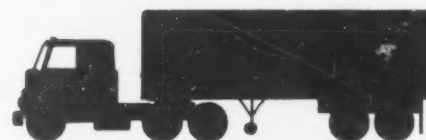
Note: In 1984 truck tractor with trailer accidents, 64.8 percent of the truck tractor with trailer occupants who were killed or injured were not wearing seat belts, 8.1 percent were wearing seat belts, and seat belt use was unknown or unreported for 27.0 percent of those killed or injured.

The Machine

Vehicle Action	Number of Vehicles	Percent
Going straight	1,553	62.7
Turning left	183	7.4
Turning right	240	9.7
Backing	88	3.6
Stopped in traffic	45	1.8
Parked	54	2.2
Making U-turn	1	
Passing	110	
Changing lanes	78	
Merging	11	12.6
Parking	5	
Slowing-stopping	64	
Unattended moving vehicle	3	
Other	40	
Total no. of vehicles (action stated)	2,475	
Action not stated	59	
GRAND TOTAL	2,534	

Note: Total number of vehicles includes parked truck tractors with trailers involved in accidents.

Truck Tractors With Trailers



Vehicle Defect	Number of Vehicles	Percent
None	1,961	96.1
Brakes	24	1.2
Lights	8	2.7
Steering	1	
Wipers	1	
Tires	17	
Trailer hitch	4	
Other	24	
Total no. of vehicles (defect stated)	2,040	
Defect not stated	494	
GRAND TOTAL	2,534	

The Environment

Light	Number of Accidents	Percent
Dawn	51	2.1
Daylight	1,658	68.8
Dusk	46	1.9
Darkness (road lighted)	209	8.7
Darkness (road unlighted)	446	18.5
Total no. of accidents (light stated)	2,410	
Light not stated	23	
GRAND TOTAL	2,433	

Note: Figures indicate number of accidents involving truck tractors with trailers occurring under the conditions indicated.

Weather	Number of Accidents	Percent
Clear	1,323	54.4
Cloudy	666	27.4
Fog	81	3.3
Mist	85	3.5
Rain	165	6.8
Sleet/hail	43	1.8
Snow	157	6.5
Strong wind	75	3.1
Other	12	0.5

Note: Some accident reports listed more than one type of weather condition. The percentage listed for each weather condition is based on the total number of accidents for this type of vehicle.

Fixed Object Struck	Vehicles Striking Object	Percent
Bridge/overpass	47	8.8
Underpass/bridge support	7	1.3
Building	8	1.5
Culvert	10	1.9
Curb	8	1.5
Ditch	166	31.1
Island/raised median	15	2.8
Embankment/retaining wall	8	1.5
Fence	31	5.8
Guardrail	39	7.3
Light pole	35	6.6
Sign post	37	6.9
Tree or shrubbery	10	1.9
Utility pole	26	4.9
Other pole or support	23	4.3
Mailbox	4	0.8
Impact attenuator	2	0.4
Other	57	10.7

21.0% of truck tractors with trailers involved in accidents struck fixed objects.

Note: Impact attenuators are crash-cushioning devices.

Traffic Controls	Number of Accidents	Percent*
No controls	1,778	73.2
Traffic signals	314	12.9
Stop sign	144	5.9
Yield sign	9	7.9
No passing zone (marked)	33	
R.R. warning sign	3	
R.R. automatic signal	7	
R.R. crossing gate	4	
Other	137	
Total no. of accidents (control stated)	2,429	
Control not stated	4	
GRAND TOTAL	2,433	